THE CHEMIST AND DRUGGIST

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Exchange Column, *Coloured Supplement.* Index to Advertisements, pp. 11, 12 (bottom folios).

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NEAREST STATION,
OLD BATTERSEA STATION
West London Extension Railway.

THE CHEMIST & DRUGGIST SUPPLEMENT.

SATURDAY, AUGUST 7, 1897.

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.

For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

'he Circulation of THE CHEMIST AND DRUGGIST SUPPLEMENT

NEXT WEEK, AUGUST 14, 1897,

WILL EXCEED 14,000.

hat is to say, it will comprise the entire Drug Trade of the United Kingdom, and will, besides, extend to the whole of the Foreign Circulation of THE CHEMIST AND DRUGGIST.

ake advantage of it by advertising your wants. If you want a Business, or wish to sell one; If you have a Situation vacant, or wish a Situation, you cannot do better than advertise in this Supplement.

dvertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, August 12, at 5 p.m.; but send earlier if you can.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

ENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
URCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
ALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—**£3,000.—LONDON, W.**—Brisk Retail and Dispensing Business; turns last year exceeded £3,000, increasing yearly; large attractive harmacy, corner position; good residence, with side entrance; held on ng lease; terms, goodwill £500, stock and fixtures at valuation.

2.—**£1,700.—LONDON, S.W.**—First-class Dispensiug Business and gh-class Retail; returns exceel £1,700 per annum; *net profit about* £630; e shop is handsomely fitted, and is situate in busy thoroughfare; large ouse held on lease; price £2,250; recommended.

3.—**£950.—LONDON, W.**—Good-class Dispensing Business; returns 950, *with good profits*; well fitted Pharmacy and ample working stock; ommodious house, 21 years' lease; price £850.

4.—**£600.—SURREY (Central).**—Rural district, very pretty locality; ell-established Business; returns over £600 yearly, increasiug; nicely-tted shop and good stock; Post-office attached; price about £500.

5.—**£800.—SOUTH COAST (Watering Place).**—Dispensing and etail Business; situate in good-class locality; returns last year nearly 800; convenient modern house, and well-fitted shop; about £500 required.

6.—**£600.—GREAT NORTHERN MAIN LINE.**—Within easy istance of London; old-established Business, Dispensing, Retail, and some gricultural trade; returns average £600; well-fitted shop, with good work-ng stock; convenient roomy house and premises; water-plant, &c.; valua-ion if required, with small premium.

7.—**£1,200.—KENT.**—Retail, Dispensing, and Prescribing Business; vell situated in the main street; returns £1,200; *net profit* £300; intending nvestors with about £700 at command can have particulars.

8.—**£1,550.—S.W. ENGLAND.**—Old-establisbed Business, Dispensing and Retail, with Mineral-water Manufactory; returns last year £1,550; *with large profits*; well-fitted shop and large residence; 21 years' lease will be granted; full particulars on application.

9.—**GREAT EASTERN MAIN LINE (two hours from London).**—Good Provincial town; Partnership; half-share for disposal; *producing* £500 *net profit*; the Business is well situated in the Market-place, and has been established over a century; price, goodwill £250 and valuation.

10.—**£850.—BEDFORDSHIRE.**—Good-class Business, situate in the Market-place; returns £850; *net profit about* £300; the shop is well fitted and stocked; modern house, with very nice garden; price £700; population of town and district about 10,000.

11.—**£900.—SOMERSET.**—Unopposed Business; Retail and Agri-cultural trade; returns under manager about £900; can be largely increased by personal attention; commodious house and large garden; price £600; offer wanted.

12.—**£500.—ESSEX.**—Unopposed Business; Retail and Prescribing; returns, present rate, £500, *with excellent profits*; comfortable house; rent £20 per annum; price £360.

13.—**£500.—HAMPSHIRE.**—Retail and Prescribing Business; well situated in busy thoroughfare; returns, present rate, £500, increasing; nicely-fitted shop and good stock; house contains 7 rooms, &c.; price £520.

14.—**£500.—DORSET.**—Good-class Retail Business, situate in the High Street, corner position; returns £500; large house; 21 years' lease; price, valuation of stock and fixtures.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—**Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.**

ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.

F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.

NO CHARGE TO BUYERS.

£800 returns.—**N.E.**—Unopposed Suburban Retail, with good sale of own Proprietaries; price £800.

£750 returns.—Good-class Retail in improving market town; full prices, except Patents, 10½*d.*; large house, garden, &c.; £650.

£1,000 returns.—**WORCESTERSHIRE.**—General light Country Retail in pretty district; good house, garden, &c.; rent £30 on lease; price £550.

£600 returns.—**LONDON.**—First class West End Dispensing; returned recently £1,000 until illness prevented vendor paying personal attention; price £450.

£700 returns.—**LANCASHIRE.**—Popular seaside resort; good-class Retail and Dispensing; fine position; price £650.

£1,600 returns.—**S. WALES.**—General Retail and Agricultural trade; vendor retiring from the trade; rare chance for up-to-date man; valuation about £900.

£600 returns.—**BERKSHIRE.**—Light Retail and Dispensing, with appointment; worth £100 per annum; price £600.

£820 returns.—**BIRMINGHAM (Suburb).**—Exceptionally profitable General, Mixed Retail; net profit over £300; yard, garden, and medium house; rent £20, on lease; vendor, having purchased a larger concern will sell for £500 at once.

£900 returns.—**CARDIFF.**—Light Cash Retail; in good district; net profit £250; price £600.

£900 returns.—**LONDON, N.**—Handsomely-fitted and commanding Pharmacy; yielding a net profit of £300 per annum; price £800, about value of stock and fixtures.

£600.—**LONDON.**—First-class West End Retail; returns 12 months ago were £1,000, decrease owing to illness of vendor; premises on long lease, and can be nearly cleared by letting part of premises; price £450.

£700 returns.—**UPTON PARK.**—Light ready-money Retail, with fair Dispensing; net profit £239; long lease; price £550.

VALUATIONS.

F. J. BRETT has been well known for many years throughout England and Wales as a reliable Valuer, and his extensive experience in all branches of the trade renders his services equally valuable to Vendors and Buyers.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

35 JEWRY STREET, FENCHURCH STREET, E.C.

Established 1870.

1.—**LANCASHIRE.**—First-class Retail and Dispensing Business; returns £1,200; full prices; rent £50; good house; net profit over £400; handsomely-fitted shop, well stocked; price £1,000.

2.—**SOUTH OF ENGLAND.**—First-class Light Retail and Dispensing Business; returns £1,800 at full prices; under management; gross profit about £1,200; handsomely fitted in Spanish mahogany; heavily stocked; price £1,800.

3.—**YORKSHIRE.**—Good-class Light Retail and Dispensing Business; returns £600; good house and garden; rent £45; price £50, goodwill and valuation of stock and fixtures, about £450 together.

4.—**DEVON COAST.**—Small rising town, Light Retail and Dispensing Business; returns £500 under manager, can do £800; good house and garden; stock and fixtures worth £400; price £450.

5.—**DORSET.**—Light Retail and Dispensing Business; returns £1,200; owner retiring after many years; rent £45; long lease; good house and garden; price £900.

6.—**HERTFORDSHIRE.**—Light Retail, Dispensing and Prescribing business; returns £600 under management; rent £40; splendid main road position; rapidly increasing town; scope for large increase; price £525.

Particulars of any of the above and others furnished on application.

TO VENDORS.

Messrs. BERDOE & CO. have at the present time a number of clients desirous of purchasing businesses from £200 to £3,000 cash, and will be glad to correspond with gentlemen who are desirous of selling. Terms and forms for submitting particulars sent on application. We are frequently enabled to introduce purchasers within a few days, and without a single advertisement being necessary.

VALUATIONS.

VALUATIONS receive our direct personal attention, and are carried out from start to finish by one of the principals. Our terms will be sent on application.

NO CHARGE TO PURCHASERS.

35 JEWRY ST., FENCHURCH ST., CITY.

JUDD & MANNERS

Chemists' Valuers, Transfer Agents, & Accountants,

76 CANNON STREET, LONDON, E.C.

SOUTH COAST.—Good-class Retail and Dispensing trade; returns £650; capital premises, in good position; price £450; plenty of scope for a pushing man.

NORTH OF ENGLAND.—Mixed Country trade; returns £[illegible]00; net profit £364; price £800, to include valuable inventory and long lease.

DENBIGHSHIRE (North Wales).—Capital Retail and Prescribing trade; returns £600; rent £25; convenient premises and nice shop; net profit about £225; price £450, a great bargain; Welsh language [illegible] a necessity.

LONDON, N. (Main Road).—Retail and Prescribing trade; returns £500; should easily do double; rent £45, on long lease; splendid premises; price £350; a good chance for a pushing man.

VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared, and Chartered Accountants' Certificate given.

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PHARMACEUTICAL CHEMISTS,

CHEMISTS' VALUERS AND TRANSFER AGENTS.

25 YEARS' PRACTICAL EXPERIENCE.

NO CHARGE TO PURCHASERS.

All VALUATIONS and STOCKTAKINGS are conducted personally by the Principals. Terms on application.

1.—**NORTH WALES.**—Light Retail and Prescribing, with own Proprietaries; well-fitted shop with good residence; net profit £235; price £[illegible]50.

2.—**LONDON, S.E.**—Smart Pharmacy, nice residence; returns about £400; price £200.

3.—**EASY DISTANCE FROM LONDON.**—Family Retail and Dispensing; large shop, handsomely fitted; well-appointed house and large garden; returns £750, increasing; price £650.

4.—**LONDON, S.W.**—Retail Dispensing and Prescribing; shop well fitted and stocked; house, private entrance; returns £500; price £2[illegible]

5.—**UNOPPOSED (near London).**—Light Country Retail nice shop and house; returns about £550; price £350.

Particulars on application.

56 CHEAPSIDE, LONDON, E.C.

(Next Door to Bow Church.)

THOMAS TOMLINSON & SON,

M.P.S.,

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.

44 YEARS' EXPERIENCE.

Valuations Conducted with careful attention to detail.

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bona-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

BUSINESSES FOR DISPOSAL of various classes and amounts of returns ranging from £200 to £4,000. Particulars given to bona-fide applicants stating outline of requirements.

Have constant inquiries for REGISTERED ASSISTANTS. Applicants introduced free.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"TOMTOM."

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BIRMINGHAM.—A progressive Drug and Drysaltery Business to be Sold, in a populous thoroughfare in Birmingham; satisfactory reasons given for giving up; goodwill £50; fixtures about £70; stock about £250; arrangements can be made as to payments. 202/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BRISTOL.—For Disposal, an old and well established high-class Dispensing and Family Business at Clifton; highly respectable connection, which might be greatly extended by a smart man of business taking it in hand at once; stock, trade, and other fixtures and fittings, utensils in trade at a valuation; the proprietor is owner of a valuable patent, which could be made the subject of a separate arrangement; [illegible] £45. Apply to Mr. John Coombs, the Mart, Bridgwater.

BISINESSES FOR DISPOSAL

(continued).

CESHIRE.—£180.—Old-established Business in Cheshire; admirably suited for young man of energy. Address, "Progress," c/o Evans, Sons & C Liverpool.

CRNWALL.—£1,000.—In one of the best business towns in Cornwall; established 70 years; large Consulting and Prescribing Chest's Business, with Dentistry; good Retail; well stocked; capital hou and shop, long lease; full working order; valuable proprietary art s; fortune for good business man; no agents; £500 down, £500 in 5 y s at 3½ per cent. Sampson Taylor Rowe, Surgeon-Dentist and Chest, Redruth, Cornwall.

HMPSHIRE.—£225 or valuation, Hampshire, a good class Light is Retail Chemist's Business, occupying an excellent position, and which sale through serious illness; only requires to be seen to be secured; imm iate possession. 214/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E C.

LNDON.—An old-established Dispensing and Retail Business in good-ann lass busy suburb; small patent account; present takings £700 per coun, with very good profits; vendor wishes to leave London for the bs y as soon as possible, and is open to a fair offer; an introduction will c,o n; good scope for increase. Apply first by letter to "Pharmacy," ssrs. Wright, Layman & Umney, Southwark Street.

NDLANDS.—For immediate sale, an old-established Chemist's Busi- fitt ness; returns over £1,000; cash business; well-stocked and neatly- hou hop; profitable Agencies; good Tooth-extracting connection; large qua garden; exceptional reasons for selling; very good opening for Str ed man. For further particulars apply, H. Bramall, St. James Sheffield.

NRWICH.—A genuine Light Retail and Prescribing Business; £3 large corner shop, well stocked, in densely populated district; rent pri n lease; established 12 years; proprietor taking larger business; bout £500. 128 Dereham Road, Norwich.

YRKSHIRE (South).—For Sale by Private Treaty, old-established Chemist's and Druggist's Business, situated in small market town in Sou Yorkshire. For particulars apply, Hanson & Son, Auctioneers, Bar ey.

F t Sale, old-established Chemist's Business, Retail and Prescribing, Bra omfortable house with garden attached, rent £20, in village near pri rd, Yorks (in present hands 33 years), owing to death of proprietor; to s aluation of stock and fixtures, about £100; stock can be reduced purchaser. Apply, A. Taylor, Chemist, Morley, Yorks.

IN Southern residential watering place, a profitable good-class Business by or Disposal, owing to proprietor's ill-health; can be greatly increased ref ung energetic man. Buyers with £500, and furnishing satisfactory Hal es, can have particulars by applying to Sclater Jones, Esq., Boscobel ournemouth West.

SALL Retail and Prescribing Chemist's Business in London for are isposal; established 17 years; fixtures, &c., belong to landlord, and req uded in the rent, £33 on lease; good 6-roomed house; £45 or value "Re d for stock, &c.; good prices; stamped envelope for particulars. Stre " (214/2), Office of THE CHEMIST AND DRUGGIST, 42 Cannon E.C.

T hemists.—Very profitable London Business (with lease) for Sale as pri going concern; only £2,500 cash, owing to serious illness of pro- occ ; returns during past 18 months exceed £4,000, all ready money; prof s commanding position; established 77 years; average yearly net buy 750; heavy stock; low rent; must sell; unique offer to immediate Lon r investor. Messrs. Mote & Son, Solicitors, 11 Gray's Inn Square, will supply fullest particulars on receipt of bonâ-fide reference.

£5 or Close Offer.—Small Drug Store, in busy main thoroughfare of S.W. district. "Chemist," 24 York Road, Battersea.

£50.—Through continued ill-health.—Small profitable Retail in alm main thoroughfare; full prices, except Patents, which are nil; £30 rent; mahogany fittings, plate-glass front; books and inv s can be seen on application; year's net profits exceed price asked. Full particulars given by letter, Z., 113 St. George's Road, Bristol.

£,500.—Good-class Retail and Dispensing Business; returns larg £2,300: net profit £600; elegantly-fitted Pharmacy; £1,3 seful stock; price £1,500; stock and fixtures worth £1,200 to ref ; books to prove everything; trial can be had; bankers' or other Dru es required. "Cyanide" (214/15), Office of THE CHEMIST AND IST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

WANTED, small Business (about £10 per week), where part may remain; near London preferred. "Confidence" (214/12), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, immediately, Light Retail, Dispensing, and Prescribing Business; net income between £200 and £300; references. "Saccharin" (214/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a good-class Dispensing, Prescribing, and Retail Business showing a net profit of not under £300; must bear strict investigation. Full particulars to D. G., c/o Messrs. Newbery & Sons, 1 King Edward Street, City.

WANTED, a good sound Dispensing and Light Retail Business, returning £800 to £1,000 yearly; healthy locality, within 20 or 30 miles of London, preferred; good house essential. Apply, with usual particulars, and state cash or credit trade, to "Verax," c/o Wright, Layman & Umney, 50 Southwark Street, London, S.E.

WANTED, immediately, a reliable Retail and Dispensing Business, returning from £800 upwards; I will pay a fair price, cash down, for one that will bear investigation; locality no object, but must have a fair house. Send full particulars, in confidence, to "Chemist," 129 Richmond Terrace, Glenny Road, Barking, Essex.

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

TO Let (seaside) in a main road, good neighbourhood, for Dispensing and Family trade, convenient House, side entrance; 7, 14, or 21 years' lease; fitted and stocked. Apply, "Cardamom" (212/25), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMPORTANT NOTICE to LARGE TRADERS.
13 HANDSOME SHOPS, near completion.
in the main
HOLLOWAY ROAD, London, N.
(Opposite Railway Station
on the Great Northern Railway Line.)
Population, two mile radius, 875,276.
One of the fiuest positions in the whole of London.
J. SAINSBURY,
Purveyor of High-class PROVISIONS, POULTRY, and GAME,
will OPEN the CENTRE PREMISES.
Branches, London and Suburbs.
For full particulars and photo of elevation
Apply to L. F. Evamy, 15A Bennett Street, Blackfriars, S.E.

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

VALUABLE Partnership for Sale; well fitted and stocked Family Business; pretty, rapidly-increasing town; Midlands; returns £1,000; good house, garden, &c.; purchaser to entertain Partnership with Chemist exactly opposite for mutual benefit and extension; both old established and capable of great development; price £500 (part may remain); no stores in town. Apply, 212/26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

APPRENTICESHIPS.

APPRENTICE wanted in a good Light Country business; moderate premium; healthy district; home comfort, and under personal supervision of the proprietor; exceptional opportunity for thoroughly learning the business; time allowed for study and recreation. "Dispensing Chemist" (210/34), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

RETAIL

ALDERSHOT.—Wanted, a smart Junior for a good-class Cash business; capable of taking occasional charge, and accustomed to Dispensing and putting up stock. Apply, giving full particulars, age, height, salary required, references, and enclose carte (which will be returned), to Allen & Lloyd's Cash Chemists' Stores, Aldershot.

BEXHILL-ON-SEA.—Wanted, a Junior Assistant for good-class business. State age, salary required, and references, Adams, Chemist, Bexhill-on-Sea.

BIRKENHEAD.—Smart, qualified, gentlemanly Assistant; about 23; outdoors; Store trade; progressive salary, £100 per annum to commence, and commission; half-day off weekly from 2. Usual particulars to Field, Breeze & Co. (Limited), Cash Chemists, Birkenhead.

BIRMINGHAM.—Outdoor.—A smart Junior Assistant, used to quick cash trade. Photo, references, and all particulars, to Hedges & Son, Dale End, Birmingham.

BIRMINGHAM.—Junior and qualified wanted at once; also vacancy for Apprentice or Improver. Apply, T. Beech, Chemist, King's Heath, Birmingham.

BIRMINGHAM.—Locum-Tenens required 19th inst., for about a fortnight. Apply, stating age, terms, and references, A. H. Harries, Chemist, Heathfield Road, Handsworth, Birmingham.

BOSCOMBE.—Two Assistants wanted: one qualified for Dispensing, the other for Counter; must be quick and obliging, and thoroughly trustworthy; characters must bear strictest investigation. Apply, with photo, Hirst, Chemist, Boscombe, Bournemouth.

BRIGHTON.—Improver or Junior wanted, at once, or Turnover would be treated with. Apply, with usual particulars, to "Chemist," 50 Queen's Road, Brighton.

BRIGHTON.—An Assistant, about 22, accustomed to good-class Dispensing and Retail business. Apply, with full particulars and photo, to John Miller, 4 Victoria Road, Brighton.

CHELTENHAM.—Wanted, qualified Manager for widow's business; indoors; must be good Counterman, and well up in Dispensing. Apply, stating age, height, and salary required, to Mrs. Purnell, Chemist, Cheltenham.

CREWE.—Wanted, a smart active Assistant (qualified preferred) for third week in August; indoors; a Junior kept; must be obliging and steady. Apply, stating age and usual particulars, to Ashfield, The County Drug Stores, Crewe.

CROYDON.—Qualified Assistant for six weeks, from about August 16, to take part charge; indoors. Apply, stating age, salary required, and usual particulars, to Marshall, Chemist, Addiscombe, Croydon.

DARLINGTON.—Wanted, qualified Assistant (indoors), chiefly for Hospital and Doctor's Dispensing. Particulars to R. Nicholson, Chemist, Darlington.

DEAL.—Wanted, an Assistant, about 23, in a Light Retail and Dispensing business on the South East Coast. Apply, stating age, height, reference, and salary required, with photo (to be returned), to John Green, Pharmaceutical Chemist, 28 High Street, Deal.

DEVIZES.—Assistant wanted (indoors), about 21: must be a good Dispenser, and accustomed to good-class country business. State full particulars, and enclose photo, to be returned, Hill, Chemist, Devizes.

DROYLSDEN.—Wanted, a good Assistant, smart behind the counter; one not afraid of work and obliging to customers will meet with a permanency; capable of being left in charge occasionally; Wine and Spirit License at shop; no Sunday duty; no objection to married man. Apply, with full particulars, salary required, and references, to C. H. Griffiths, Chemist, Droylsden.

EAST GRINSTEAD.—Wanted, a smart Junior (indoors), about 22, in good Dispensing and Mixed country business; 5 kept; easy hours. State age, height, salary required, experience, when disengaged, Dixon, Chemist, East Grinstead.

EASTBOURNE.—Dispenser.—Messrs. Provost & Crook, Eastbourne, require an Assistant as Dispenser, aged about 24; qualified; must be thoroughly competent, and well recommended. Apply at once, stating age, height, salary required, and reference, and enclosing carte.

HARWICH.—A gentlemanly Assistant, not under 22 years of age; indoors; accustomed to Dispensing, Prescribing, and Retail counter; steady and trustworthy; good references essential; one only kept. State age, height, salary required, and full particulars, with photo (to be returned). Apply, A. Worts, Chemist, Harwich.

HASTINGS.—Required, immediately, qualified Assistant; high references required; age about 30; must be a good Prescriber, obliging, and competent to take charge during certain hours daily. Apply, with full particulars (personally between 10 and 8 on Saturday), or enclose photo F., 17 Larkfield Road, Richmond, Surrey.

KENT.—Wanted, a qualified Assistant, for a Light Retail Counter business; indoors; short hours. Apply, stating age, salary required and usual particulars, to "Pharmacy," Hawkhurst, Kent.

KING'S LYNN.—A qualified Assistant (at once); outdoors; hours of business short. Apply, with particulars of salary required, age and reference, &c., to Neale, c/o Allen & Neale, King's Lynn.

LEICESTER.—Wanted, qualified reliable Assistant, outdoors, accustomed to Light Retail and Dispensing. Apply, stating age, height, experience, latest references, and salary required, to W. T. Hind, Chemist, Clarendon Park, Leicester.

LIVERPOOL.—Part-time Assistant wanted, about September, every afternoon allowed for study, or afternoon and evening, according to terms arranged; near Cowley's School of Pharmacy; comfortable home. Address, W. A. Grace, Chemist, 41 Prescot Street, Liverpool.

LONDON, W.—A Qualified Assistant, used to the front counter. Apply personally if possible; if by letter give all particulars to J. G. Shirley & Son, 2 Westbourne Grove, Bayswater, W.

LONDON, N.W.—Wanted, qualified Assistant; about 24. Apply by letter, stating particulars, or personally, to J. A., 323 Kentish Town Road, London, N.W.

LONDON, N.W.—Junior Assistant, immediately; indoors; one with knowledge of Post-office work and Photography preferred, for good-class suburban business; must be a good Counterman and obliging. Apply, H. E. Carne, 165 Brecknock Road, London, N.W.

LONDON.—Junior, at once, indoors, about 21, for first-class Cash business; well up in Counter work and Dispensing, and having knowledge of Photography preferred. Apply, personally or by letter, stating fullest particulars, to "Manager," 265 Finchley Road, N.W. Also vacancy for a smart Improver.

LONDON.—Wanted, about 21st August, a Gentleman, single, aged years, and qualified, to take charge of a Retail, and Dispense for Doctor; he will be expected to keep himself, but residence is found at surgery; character must bear strictest investigation. State salary required or a personal visit daily at 4 o'clock P.M. to M.D., 19 Elgin Avenue, W.

LONDON, S.W.—Assistant; indoors; must have had good experience, suit one studying Minor or Major. State salary and full particulars with photo, "Alembic" (212/35), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, W.—Locum wanted; one accustomed to London trade preferred, from August 7th, for six weeks. Apply, James Garn, 106 High Street, Kensington.

LONDON, W.—Junior Assistant, 12th of August, about 21; qualified Dispenser. Send usual particulars and reference, to Feltwell & C 91 Hammersmith Road, West Kensington, W.

LONDON, W.—September.—A thoroughly competent qualified Assistant, aged about 25, wanted, middle September; indoors; accustomed to first-class business and capable of taking charge. Apply, personally if possible, between 11 and 1, or if by letter, give full particulars, V. Fellows, 49 Hertford Street, Mayfair, London, W.

LONDON, E.—A smart Junior required at once; must be accustomed to quick Counter trade; no Sunday work; half-holiday weekly; 11 out. Send photo, or apply, personally, to Picken Bros. (Limited), Forest Gate, E.

LONDON, N.W.—Assistant wanted at once; outdoors; no Sunday duty; hours 8 till 9.15, except Thursdays 3, Saturdays 11. Apply personally, if possible, to Goodchild Drug Stores, High Street, Harlesden, N.W.

LONDON, S.E.—A competent Assistant; about 22; indoors; accustomed to Light Retail and Dispensing; good Counterman, and capable of taking charge if required; salary and commission; one wishing to learn high-class Dentistry might be treated with. Apply, or state salary required and usual particulars, to J. D. Pidgeon, Pharmaceutical Chemist, 6 Lewisham High Road, New Cross.

LONDON (Central).—Improver or Part-time; state full particulars "Progress" (214/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, N.W.—Wanted, a qualified Managing Assistant, for permanency; about 28; one with first-class experience preferred. Apply, by letter, to A. T., 105 Haverstock Hill, London, N.W.

MALTA.—Required, early in September, a qualified Assistant, used good-class Dispensing; must be steady and willing and, if possible, possess some knowledge of Photography; aged about 24; salary £9 monthly first year; £9 10s., second; £10, third year; sleeping accommodation provided, but no board; second-class passage paid out and back, conditional candidates must hold undeniable references. Address, "Malta," c/o Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

RETAIL—continued.

MIDDLESBOROUGH.—Wanted, Assistant (outdoors) for Wholesale and Retail Chemist and Druggist; also to attend to Paints, Oils, and Colours, with experience and good reference; state age and salary required. Apply, Mrs. Emma Sowerby, Linden House, Middlesborough.

NATAL.—Qualified Assistant wanted for Durban, Natal: must be good Salesman, quick and accurate Dispenser, and had experience in good business. Three years' agreement to be signed; salary £150, £165, and £180; room supplied, but not board; second-class passage paid. Apply, stating full particulars, to E. M. D. (214/11), c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

NEATH.—Smart qualified man, as Manager for a modern Cash Pharmacy about to be opened in Swansea; also good Junior. Apply, Griffith Isaac, Chemist, Neath.

NEWBURY.—Fielder & Co., Chemists, Newbury, require an Assistant (qualified preferred) of good appearance and address, well up to a good-class Country trade with Photography; no one need apply unless they can give the highest references in every way; short hours; no Sunday work; outdoors; one who wishes a permanency would have preference.

PETERBOROUGH.—Improver or Turnover for a Mixed Country business; outdoors. Apply, with full particulars, to Arthur Carlton, Chemist and Druggist, 18 Long Causeway, Peterborough.

POCKLINGTON.—Assistant required at once for Mixed Country trade; outdoors. Apply, with full particulars, age, height, salary required and photo if possible, Boyden, Chemist, Pocklington.

PORTSMOUTH.—Competent Assistant, for Retail and Prescribing; one with knowledge of Surgical and Mechanical Dentistry preferred; able to take charge in absence of Principal. State full particulars to previous experience, age, height, salary required outdoors, Foster, Chemist and Dentist, Lake Road.

RAMSGATE.—Wanted, for a month, commencing about August 16th, for Retail and Dispensing business, a gentlemanly Assistant; indoors. Apply, with references, salary, &c., F. Dyer, Chemist, Ramsgate.

REDHILL.—Wanted, a Junior Assistant, to Dispense and assist in Retail. Padwick, Pharmaceutical Chemist, Redhill.

RYDE, I.W.—An Assistant, about 25 years of age, accustomed to good-class Retail and Dispensing business. Apply, with particulars as to age, height and salary, to Tenison Smith, Ryde, I.W.

SALFORD ROYAL HOSPITAL.—Wanted, a Senior Dispenser; must possess the Minor Certificate of the Pharmaceutical Society. Applications, with testimonials, to be sent addressed to the Secretary, on or before August 18th, 1897. ALEXANDER HAY, Secretary.

SOUTHAMPTON.—Wanted, a qualified Assistant, for the Counter; outdoors; not under 24 years of age. Apply, with particulars as to salary and references, to Wride & Co., Chemists, Southampton.

STONE.—Smart Junior or Improver, who if suited is likely to remain about 2 years; must be well recommended. State age, height, salary required, and full particulars, enclose photo, F. Jacks, Family Chemist, Stone, Staffs.

STROUD.—Junior, about 21, at once, for Light Retail, where time is allowed for relaxation; good Counterman; indoors. Apply, with photo, W. Clarke, Strood, Rochester.

THAME.—Wanted, at once, temporary assistance for about four weeks. Apply, with terms, to Squire, Chemist, Oxford.

JCKFIELD.—An Assistant for a good-class Country business; indoor; one only kept. Apply, with full particulars and photo, to H. Farr, Uckfield.

WORCESTER.—Outdoor Assistant for the Retail Counter. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

WREXHAM.—Immediate: Minor man; age 24; hours easy; half-holiday; outdoor; first-class Pharmacy. Give all particulars, closing photograph, C. G Caldecott, Regent Pharmacy, Wrexham.

YORKSHIRE (East Riding).—Wanted, immediately, a smart Assistant, accustomed to a good Country, Family, and Agricultural business; hours 8 to 7; no Sunday duty. Apply, stating references, age, height, salary required (outdoors), and enclosing photo, to Brigham, Chemist, Pocklington.

GOOD Junior Assistant to work with proprietor; good hours; no Sunday duty. Z. Y. X. (213/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

HAMILTON, LONG & CO., State Apothecaries and Chemists to the Queen, Sackville Street, Dublin, have a vacancy for an experienced Assistant, but 25 or 26 years of age, for the Family and Retail counter. Apply, with parte, stating age, height, references, and salary expected (in-confidence), to Hamilton, 3 Lower Sackville Street, Dublin.

HICKS & CO. (LIMITED), Cardiff, require the services of a qualified Assistant to undertake the management of a new Branch; preference given to a gentleman experienced in Store trade. Apply, stating salary (with or without house), age, height, references, and enclose carte. A smart Junior also required for same.

MANAGER, single, for Light Retail, in small country town; comfortable furnished rooms on the premises, with board and attendance; one desiring a permanency preferred. Apply, with full particulars of age, experience, salary required, and enclose photo, to "Valerian" (212/5), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

M. BEETHAM & SON, Cheltenham, require a thoroughly qualified Assistant; about 24; must have been accustomed to a good-class Family Dispensing business. State references, salary required (indoors), and enclose carte, if possible (to be returned).

TRUSTWORTHY, energetic Assistant required; qualified; outdoors; prospects of Managership. State age, salary required, and full particulars, Timothy White Company, Chemists, Portsmouth.

WANTED, at once, for a small progressive country business, Manager, to live on premises; qualified preferred; character must bear strictest investigation; good Salesman, Prescriber, and Extractor. Apply, stating age, salary, &c., "Veritas," 55 Upper Parliament Street, Nottingham.

WANTED, at once, a qualified man to manage Branch; married; aged about 33; must be Extractor and Prescriber: used to good business; remuneration by salary; unfurnished rooms, and light. Apply, "Calcutta," Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, London.

WHOLESALE.

ASHTON-UNDER-LYNE.—Qualified Assistant; experienced in the manufacture of B.P. Preparations and General Laboratory work. Also energetic man as Traveller; previous experience necessary. Apply, with photo, testimonials, salary desired, &c., to W. Bostock & Sons, Manufacturing Pharmaceutical Chemists, Ashton-under-Lyne.

CAPE TOWN.—Wholesale Assistant wanted, who has had experience with good London Wholesale house; 3 years' agreement to be signed; second-class passage paid; salary £9, £10, and £11 per month, first, second and third year respectively. Apply, stating full particulars, to T. L., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

LONDON.—Attendant wanted for an Exhibit at the Chemists' Exhibition, August 16 to 20; suit Chemist or Assistant on his holidays. Address, with terms, U. B. (186/34), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ESSENCES.—Bratby & Hinchliffe (Limited), Manchester, require the services of a good Practical Man who thoroughly understands the manufacture of Soluble Essences; chemist preferred, who could take entire charge of the department. Apply by letter, with references, stating age, experience and salary required.

REPRESENTATIVE required for Newcastle district by manufacturers of Standard Specialities for sale with Chemists and Grocers; must have had first-class experience. Reply, with all particulars, stating age, salary, and references, to "Storax" (186/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SMART Traveller or good Houses wanted to represent and sell on Commission a first-class Proprietary Article; well advertised; liberal terms; state district covered. Address, "Simplex" (210/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Lad (16 to 18), used to rough Laboratory work. Apply, Knowles & Phillips, 47 Minories, E.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

JUNIOR Assistant; 22; 7 years' all-round experience. 91 Hoxton Street, N.

JUNIOR; 20; tall; 4 years' first-class experience. W., 19 High Street, Kingston.

LOCUM; disengaged; aged 29; good Extractor. 2 Horton Street, Lewisham, S.E.

SMART Assistant; 23; disengaged September 11; outdoors. F. Sugden, 10 Church Road, Acton, W.

QUALIFIED; 22; tall; first-class Retail and Dispensing experience. 8 High Street, Windermere.

MANAGER; qualified; 29; good experience. H. C., 1 Elm Park Terrace, Fulham Road, S.W.

DISPENSER; Locum or permanent; qualified; disengaged August 23. W. M., 25 Argyle Street, W.C.

SITUATIONS WANTED—*cont.*

RETAIL—continued.

PART-TIME; afternoon; qualified; disengaged 2.30 to 6. "Salol," 67 Lamb's Conduit Street, W.C.

MANAGER; 40; experienced; prescriber and extractor. "Chemist," 56 Spurstowe Road, Hackney.

MANAGER, with view to succession; North England preferred. Lees, 86 Stoke's Croft, Bristol.

END of August; South; Junior; 19; 4 years. "Snapshot," 30 Bradford Terrace, Farnworth, Bolton.

EVENING employment by experienced Assistant; disengaged 5 daily. "Statim," 166 Southgate Road, N.

DISPENSER; Chemist, Surgeons, Institution; aged 32; testimonials. "Minor," 3 Market Place, Derby.

JUNIOR; 21; London; 4 years' experience; disengaged August 14. P., 11 Kensington Road, Morecambe.

LOCUM or permanency; qualified; married; good refereuces. Pollard, 19 Minford Gardeus, West Kensington.

WANTED, a Junior Assistant iu a Dispensing business; one kept. Partington, 2 Beaufort West, Bath.

LONDON.—Assistant; 27; thoroughly experienced; sound references. H., 5 Amwell Street, Pentouville, E.C.

LOCUM-TENENS; qualified; disengaged September. T. J., 9 Camden Gardens, Shepherd's Bush, W.

ASSISTANT; qualified; 21; good Dispeusing experience. E. B. Ward, 24 Upper Tichborne Street, Leicester.

MANAGER; qualified; 27; experienced buyer; Photography. "Extractor," 44 Bryantwood Road, N.

AS Manager or outdoor Assistant; Continental experience; Minor. Seelleur, British Pharmacy, Boulogne.

UNQUALIFIED; 22; 6 years' experience; good references; disengaged. Pile, High Street, Barnstaple.

AS Manager or otherwise; 27; qualified; single. Address, R., 27 Northcote Road, Clapham Junction, S.W.

AS Dispenser to Surgeon; good Prescriber, well experienced; highest references; unqualified. C. Almy, Brixham.

LOCUM; Minor; abstemious and reliable; disengaged August 23; aged 28. E. Stone, 8 Square, Chesham, Bucks.

LOCUM-TENENS or Temporary; qualified; aged 25; disengaged August 9. "Radix," 1 Park Street, Regent's Park.

LOCUM; disengaged about August 15; abstainer; reliable; 29; Major. Williams, c/o Wardley, Chemist, Tonbridge.

CHEMIST, speaking fluent French, first-class experience, tall, as Locum or otherwise. E., 2 Castle Terrace, Muswell Hill.

JUNIOR; 20; 4 years' experience; situation in first class business; dispensing preferred. "Vinum," 60 High Street, Dorking.

MANAGER, or Dispenser to Surgeon; age 28; London and country experience. "Chemist," 22 Wasp Nest Road, Huddersfield.

ASSISTANT; 23; 7 years' Dispensing and Store experience; disengaged. D. H., c/o Ball, 42 Pembridge Road, Notting Hill.

TO Chemists and Dentists.—Good all-round Assistant; 7 years' experience; Hall certificate. Fox, St. Stephen's Road, Portsmouth.

QUALIFIED; 25; North or Midlands; Birmingham preferred; outdoors. "Extractor," 13 Manley Street, Scunthorpe, Doncaster.

JUNIOR; 21½; 5 ft. 7 in.; outdoors; Extractor; Liverpool or Manchester; good references. Haworth, 99 Hospital Street, Nantwich.

FRENCH Student, 2 years' practice, desires situation at French-English Chemist's; speaks English. Barbin, 5 Rue Chaillot, Paris.

MANAGER; 40; married, no family; unqualified: best refereuces. 203/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannou St., E.C.

QUALIFIED; 22; 7½ years' good Dispensing and all-round experience. "Assistant," c/o Bradbury, 17 Buccleuch Street, Glasgow.

JUNIOR; Glasgow or Edinburgh; 5 years' experience; time for evening classes; disengaged September 1. Swan, 90 High Street, Dumfries.

AS Improver; 18; 3½ years' experience; disengaged September 13; London preferred. Apply, H. P., 24 Berridge Road, Upper Norwood.

LOCUM-TENENS; qualified; 27; disengaged; Lond 210/36, Office of THE CHEMIST AND DRUGGIST, 42 Canno

MANAGER; capable, energetic, experienced; 39; quall (213/24), Office of THE CHEMIST AND DRUGGIST, 42 Ca

JUNIOR; 21; 6 ft.; London, suburbs, and provincial Disp ence; abstainer. "Cymro," Mr. T. Davies, Pharmaceut Porth.

ASSISTANT; 23; good references; Photographic knowl tomed high-class business. H. E Flemons, Brockhall Pa ampton.

MANAGER or outdoor Assistant; qualified; 31; disenga or Suburbs preferred; Extractor. Lenton, 63 King's ham, S.E.

DISPENSER to Chemist, Surgeons (firm), or Institution experienced; good references. M., 25 Zig Zag Ro Cheshire.

LOCUM.—Advertiser, experienced, Registered Pharmacist 13th August till 4th September for engagements. Scott Road, Prestou.

ASSISTANT; aged 28; Locum or permanent; first-cla experience; highest references. J. T. R., 83 Fortune Harlesden, N.W.

LOCUM-TENENS; qualified; disengaged August 23; ences; 8½ years' experience in Dispensing houses. Smit Street, Watford.

AS Assistant or Manager; aged 29; qualified; first-class good references; disengaged. Cooke, 168 South View Ro Lane, Sheffield.

ASSISTANT in good-class Dispensing and Retail; aged 2 9 years' experience. William Parratt, Orchard Villa Market, Norfolk.

DISPENSER-BOOKKEEPER to Surgeon; 23; marri fied; 13 years' experience; good references. Day, 33 Hig Park, London, N.

MANAGER or Locum; first-class all-round experien disengaged. "Codex" (207/39), Office of THE CH DRUGGIST, 42 Cannon Street, E.C.

JUNIOR Assistant; 21; North preferred; good referenc tomed to Veterinary work. "Apis" (212/27), Office of T AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Locum-tenens; qualified; London and perience; aged 28. "Sigma" (211/11), Office of TH AND DRUGGIST, 42 Cannou Street, E.C.

AS Manager; first-class experience iu Retail and Stores; out highest references; or would entertain Partnership or pur ness. Sauderson, 21 Lunley Road, Balham, S.W.

FOREIGN Assistant, with English experience, speaking German, wishes situation; good references. E. (212/10), Of CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; qualified; aged 30; married; good Prescrib on premises preferred; permanency essential. 212 21, Of CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BRANCH Manager; qualified; 25; reliable and capable; suburbs preferred; after middle of August. 211/13, Off THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Assistant; aged 36; married, one child; scriber and Extractor; country preferred; disenga month. "Bromo," Fore Street, Sidmouth, Devon.

QUALIFIED; 28; disengaged; Prescriber, Dispenser; ex ferences; West-end and varied experience. 213/37, Off THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 23; in London or immediate southern sub time for study; London and provincial references; Ph Extraction. Leefe, 3 Broadway, Streatham, S.W.

AS Photographic Assistant in Drug-store or Chemist's; good of Drugs and Patents; 22; 5 years' London and provinc ence. "Alpha," 31 Penn Road Villas, Holloway, N.

SEPTEMBER 5.—Morning and Afternoon Engagement all day Saturdays (or arrangement); Dispensing; abstai doors preferred. Medley, 193 Knight's Hill Road, West Norwood

RIVIERA (Italy).—Qualified Chemist; 27; tall; large exp International Pharmacy; speaking finently English, French and some Italian; high references. Bernott, Pharmacie L Carlsbad, Austria.

OCTOBER.—Seaside or Isle of Man preferred, as Manager wise; unqualified; 25; 10 years' varied experience; tem permanent. Salary and particulars to 203/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

RETAIL—continued.

; disengaged early September; completing 12 months' nt, London; good-class berth, no stores; London or South ent references. "Sambucus" (210/25), Office of THE UGGIST, 42 Cannon Street, E.C.

an, qualified, 27, speaking English and French fluently, lian; 2 years' first-class London experience, 2 Ostend me or Naples preferred; disengaged October. L., The acy, 223 Finchley Road, London.

Qualified Chemist, speaking French and English, at London Pharmacy, requires situation in Mid-France or ason; excellent references; previous Riviera experience. (94), Office of THE CHEMIST AND DRUGGIST, 42 Cannon

WHOLESALE.

RY or Wet Counter; good experience. "Rhei," 50 Road, Rotherhithe, London, S.E.

E Traveller seeks re-engagement. Apply "Energetic" ffice of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

, disengaged, married, desires berth in good Drug ndon, suburbs; best references; will interview at any um," 29 Ifield Road, S.W.

E or Stores.—A qualified Chemist seeks re-engagement ; aged 38; good appearance and address; disengaged. of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

E Chemists and manufacturers desirous of pushing their the German market can be represented by a German able to influence business, and is about to proceed to o Silz, 13 Featherstone Buildings, Holborn, London, W.C.

MISCELLANEOUS.

ges are made for Advertisements under this ad, which can be obtained on application.

CHEMISTS willing to distribute a number of Daisy coupons own bills, or otherwise, write, offering terms, &c., to Limit), Leeds.

ESENTATIVE required by the Zomēla Co. (Limited), John et, Birmingham, for their stand at the forthcoming on. Must be thoroughly well known among London and pable and energetic man may secure permanency.

T-BAKING MACHINE (hand power).—The "Keystone," zes up to ½-inch; 4,000 per hour; cost £15; take £10. h.p. Horizontal Gas Engine, tube ignition, £15. Both used. Csoosoo Co., 2 Marlow Works, Calvert Avenue,

Shop-fittings.—Complete set suitable for branch or mahogany and plate-glass serving counter, with 13 14-ft. handsome fitting, bevelled-glass labels and cut mirror poison cupboard, shelving, pilasters, &c.; 6-ft. mirror dispensing-screen, with plate-glass counter, and ; 10-ft. attractive wall-case; desk and perfume case; t plate-glass counter case; 180 enamelled shield-labelled ung. jars; French scales and weights, &c. Price 80 se. Philip Josephs, 54 Old Street, City Road, London,

UCUMBER AND GLYCERINE.

mber Paste is the best for preparing Cucumber Emulsion. l labels free with each jar; ½ lb. (for 3 lbs. emulsion), 6d.; 7 lbs., 25s., post free. Rouse, 61 Charlotte Street,

rs actually enter into the composition of this article.

VICE COMMISSION. — FORTHCOMING EXAMINATION.

n H.M. Naval Hospitals at Home and Abroad (20-25); be date specified is the latest at which applications can must be made on forms to be obtained, with particulars, Civil Service Commission, London, S.W.

FORMULA WANTED.

Raspberry Essence.

uires a thoroughly reliable Formula for a Raspberry e. If the quality is satisfactory he will pay

£50

for the Sole Right in the Formula.

ied by a sample bottle of the Essence (not less than o "Raspberry" (201/9), Office of THE CHEMIST AND on Street, E.C.

The Principal Contents of "The Chemist & Druggist."

HAIR-OIL is the latest reported poison (p. 223).

THE cost of getting goods to Johannesburg is shown in a note on p. 240.

AN American order for a hundred million tablets has been placed (p. 225).

THE death of Mr. Henry Lyman, a well-known Canadian wholesale druggist, is recorded (p. 233).

THE legality of the sale of cotton-seed oil for salad oil comes up in a case reported on p. 242.

THE other side is championed this week in the discussion on the sale of indecent articles (p. 248).

LITTLEHAMPTON refuses to allow the advertisements of patent medicines on its bathing-machines (p. 222).

MRS. PROCTOR, a lady chemist at Nottingham, depressed through the falling-off of her trade, has committed suicide (p. 223).

THE High Court of the Province of Quebec has decided that the sale of all medicines is to be confined to pharmacists (p. 225).

DEALING with pharmaceutical reciprocity this week, we show the character of the examinations in the Australasian colonies (p. 239).

MR. BEECHAM has to pay 50*l.* because his agent had an advertisement painted on Nelson's old flagship, the *Foudroyant* (p. 230).

A SUFFOLK CHEMIST sold strychnine without entering the sale. He thought knowing the purchaser was sufficient. It cost 32*s.* 6*d.* (p. 230).

DR. STOCKMAN has been appointed Professor of Materia Medica in Glasgow University, in succession to the late Professor Charteris (p. 224).

THE revised by-laws proposed by the Council of the Pharmaceutical Society have been confirmed at a special meeting of the Society (pp. 227 and 236).

THE failure of a cod-liver oil speculation last year has resulted in a disagreement among the syndicate and a reference of the dispute to Mr. Justice Mathew (pp. 230 and 238).

PETROLEUM hair-wash is to be looked after in future by the County Council, who find that it comes within the scope of the Petroleum Act (p. 222). We give a formula for a safe substitute (p. 238).

AN action between Idris (Limited) and a Margate dealer shows again the difficulty of the syphon-trade, and the necessity for manufacturers who lend syphons to make the borrower perfectly aware of his responsibility (p. 231).

THE Parliamentary Committee of the British Medical Association have elicited from the Privy Council the information that the Government are still considering a Bill to provide restrictions on the sale of carbolic acid (p. 232).

CONSIDERING the season of the year the markets have been fairly active. There have been advances in a good many articles, menthol and star-anise oil being the principal drugs thus affected. Quinine is very firm (p. 244).

THE Government have introduced their Bill to amend the Sale of Food and Drugs Act for criticism only. It does not embody the principal recommendations of the Select Committee on whose report it professes to be based (pp. 232 and 237).

THE BELFAST CORONER, having to inquire into the circumstances of a suicide, made the principal point of his inquest a severe criticism of a chemist who, it was alleged, had given the deceased some medicine six weeks before he cut his throat with a razor (p. 224).

EXCHANGE COLUMN-BARGAINS

TERMS.

DEPOSIT.—The purchaser of anything advertised in the Exchange Column may remit the amount to us, and we on pay the money deposited on advice from the remitter. We charge a commission of 6*d.* on any transaction £5 or less, or 1*s.* if above that amount.

Limited to the Advertisements of Surplus Stock, Shop Fittings, Apparatus, Photographic Goods, Books and Periodicals, For Sale, Addresses Wanted, and Articles Wanted.

½d. *per word with name and address.* **1d.** *per word if we register the address and attach a number.*

No Advertisement Inserted for less than 6d.

THE CIRCULATION OF . . .

THE CHEMIST & DRUGGIST SUPPLEMENT

NEXT WEEK, AUGUST 14, 1897,

WILL EXCEED 14,000.

That is to say, it will comprise the entire Drug Trade of the United Kingdom, and will, besides, extend to the whole of the Foreign Circulation of THE CHEMIST AND DRUGGIST.

Take advantage of it by advertising Old and Surplus Stock, which can be turned quickly into cash by this means, and Apparatus, Books, &c., can be disposed of to advantage. The whole Trade reads this page.

BARGAIN NUMBER,

AUGUST 14, 1897.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, August 12, 5 p.m. but send earlier if you can.

APPARATUS.

Suppository, hougie and pessary mould, each Maw's pattern, no further use, under cost. Particulars from WARNES, Chemist, 333 Gray's Inn Road, W.C.

PROPRIETARY ARTICLES.

69 1*s.* Leath-Ross's tinctures; 52 6*d.* pilules; quite clean; no reasonable offer refused. DAVIES, Chemist, Eufield Wash.

12 doz. each Avenue enamel, Avenue liquid gold, Avenue liquid dyes, 1*d.* glycerine; offers requested. SPURGEON, 5 Lower Brook Street, Ipswich.

SHOP FITTINGS.

Stock and fixtures for immediate disposal, at valuation; would suit a branch or otherwise. Write to E. & I. J. DADLEY, 21 Cartergate, Nottingham.

Good-class shop-fittings, containing 2 6-gall. swan-neck carboys; 1 range drawers, glass knobs, glass bevelled labels; 2 counter-cases; 1 wall-case; and several other fittings; cheap. Apply, BROOKS' DRUG STORES, Broadway, Deptford.

Chemist's fittings, the whole or part of a small shop, comprising nest of drawers, with shelves and bottles; dispensing-screen; counter-case; sponge, tooth-brush, and perfume-case; at a low price to a cash purchaser. 6 Weymouth Street, Portland Place, W.

MISCELLANEOUS.

Soda-water Trolley; a boy of eight can easily convey 3 do[illegible] syphons and cases any distance; 35*s.*, carriage paid. ARTHUR & [illegible], Cambridge.

Surplus stock.—1 cwt. each acid oxalic, aloes barb., pulv [illegible] loose black-lead, Servants' Friend black-lead in 2 oz. packet [illegible] Chapman's oils, 1*s.* Aspinall's enamels, 6*d.* and 1*s.* metallic [illegible], 5-pt. percolator (Y. Glass Co.); what offers? FLETCHER, Indig[illegible] Warehouse, Eckington, Derbyshire.

WANTED.

Camwal shares. Lowest price to LAKEMAN, Chemist, Molbu[illegible]

Scott's electric flesh-brushes; say price. THOMPSON, 1 Fred[illegible] Street, Edinburgh.

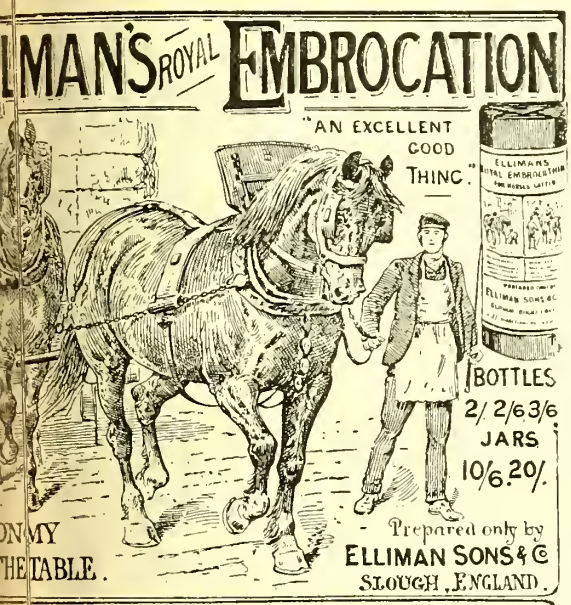
Dental forceps, set of, good condition, cheap. "DENTIST," 29 [illegible]dington Terrace, Greenwich.

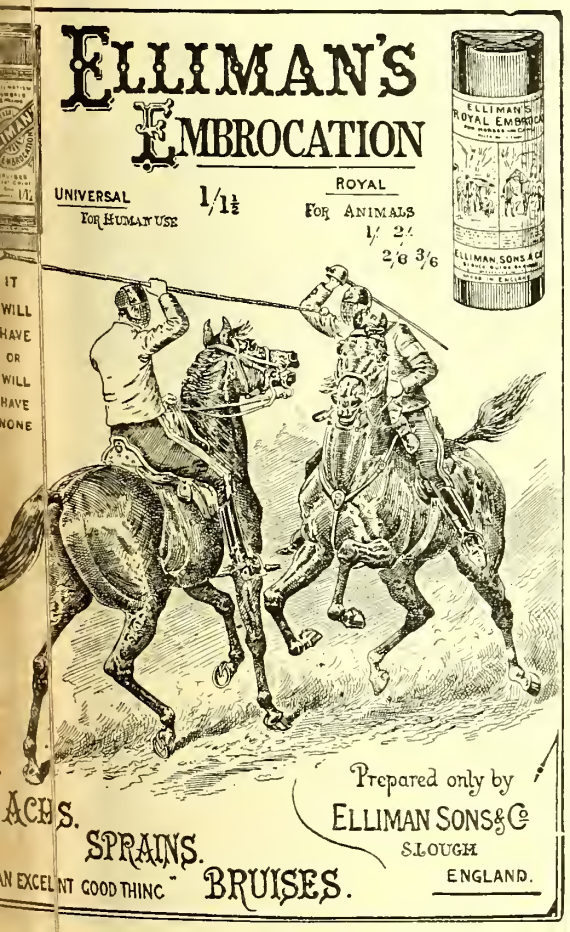
C. & D. Diaries from 1880 to date; used will do. Price to [illegible]AMLEY, c/o Mr. Perks, Beeston, Notts.

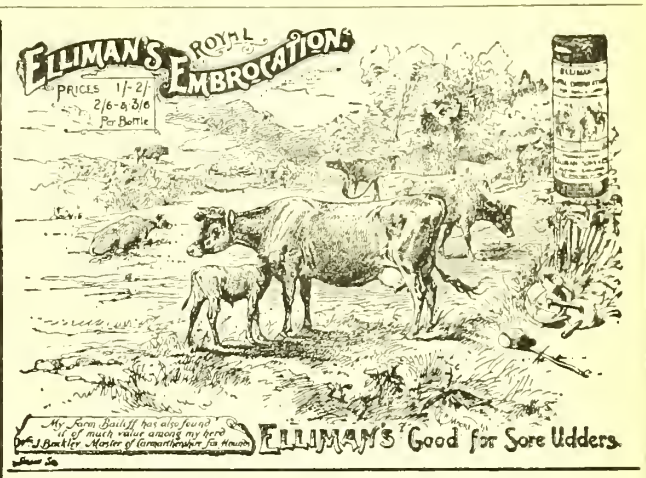
ADDRESS WANTED.

Marks, S., travelling photographer, formerly Bayswater, rece[illegible] Leicester; mutual benefit from information. 213/20, Office of the [illegible] & D.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*August 7, 1897*







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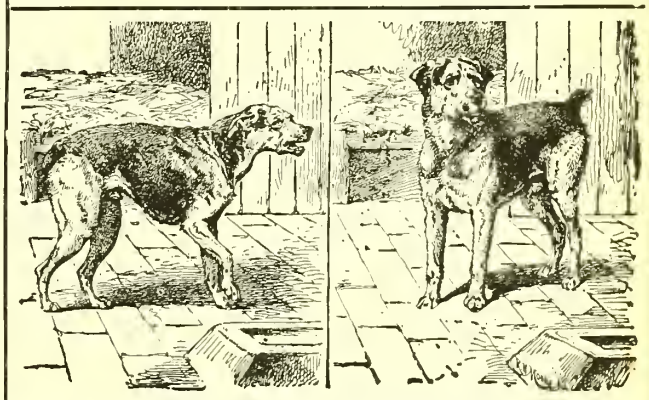

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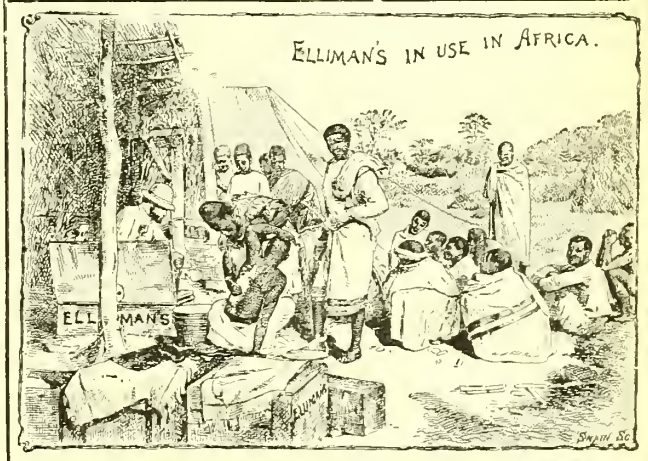

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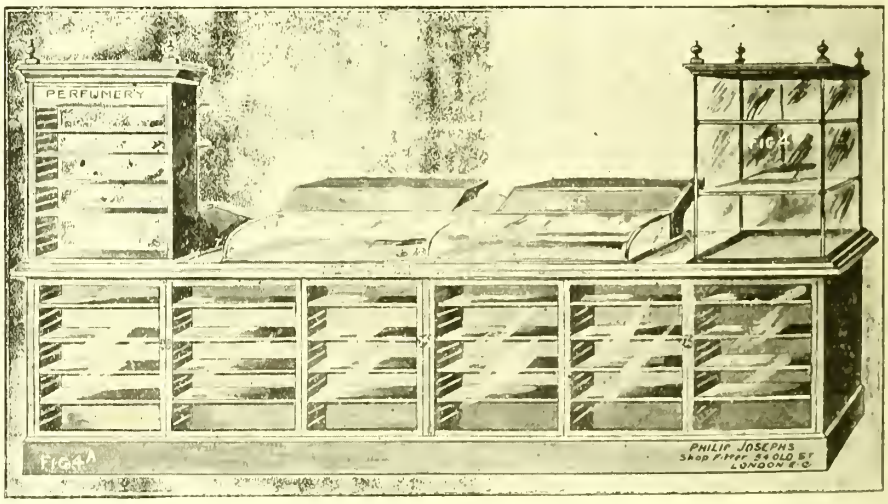


SERVING COUNTER.

FIG. 4A.—12 ft. long × 3 ft. high × 2 ft. wide. Solid mahogany, double moulded top, with mahogany and plate glass doors under, forming show cases with movable shelves, and having fitted bolts and fasteners.

COUNTER DESK AND PERFUME CASE.—FIG. 4B.—Mahogany desk with drawer inside, flap rest, and fitted lock and key. Case having plate glass door with plate glass tablet, "Perfumery," and fitted lock and key, lined at back with mirror and having polished sliding shelves. Back of case having shelf for ink, &c. Case measures 2 ft. long × 2 ft. 6 in. high.

COUNTER SHOW CASE.—FIG. 4C.—Measuring 6 ft. long × 1 ft. high over all × 1 ft. 6 in. deep. Mahogany and ben plate glass, with serving and display shelves at back, opening with mirror falls with fitted spring catches, and interio having velvet-lined sliding trays. Case having glass ends.

BLOCK SHOW CASE.—FIG. 4D.—3 ft. high × 2 ft. long × 2 ft. wide. All plate glass, including top, opening wit mirror plate glass door with spring catch, made on the air-tight principle, lined with velvet, and interior fitted with tw polished edged plate glass shelves on tapped bronzed bar and adjustable brackets.

FIG. 4A.—We stock in sizes, 5, 6, 7, 8, 9, 10, 12 and 14 ft. long. Prices £5 10*s.*; £6; £6 15*s.*; £7 10*s.*; £8 10*s.*; £9 10*s.* £11 10*s.*, and £13 5*s.* respectively.

FIG. 4B.—Price £3 10*s.*, or a cheaper quality minus tablet, price 45*s.*

FIG. 4C.—We stock, 2 ft. 6 in., 3 ft., 4 ft., 5 ft., 6 ft. and 8 ft. long. Prices £2 10*s.*; £3; £4; £4 15*s.*; £5 10*s.* and £7 10. respectively.

FIG. 4D.—Price £6 10*s.*, or with mirror back, £6 15*s.*

All packed free for British and Channel Islands, subject to empties and wrappers returned free of charge, but for th Colonies and the Continent, 12½ per cent. on the lot or 15 per cent. on single articles (extra to quoted prices) for battene cases, straw, packing, &c.

To all whom it may concern.

Whereas it has been brought to our knowledge that an article purporting to be HYDROBROMIC EXTRACT of CINCHONA or LIQUOR CINCHONÆ HYDROBROM. is being offered for sale in this country, the same not being of our manufacture,

WE HEREBY GIVE NOTICE that the use of Hydrobromic Acid for the extraction of Cinchona Bark is secured to us by LETTERS PATENT, and no preparation being a genuine HYDROBROMIC EXTRACT of CINCHONA or LIQUOR CINCHONÆ HYDROBROM. can be manufactured or sold without infringement.

WE FURTHER GIVE NOTICE that we have instructed our Solicitors to institute immediate proceedings against any person or persons selling or offering for sale, directly or indirectly, whether by wholesale or retail, any HYDROBROMIC EXTRACT of CINCHONA or LIQUOR CINCHONÆ HYDROBROM. except that manufactured under our Patent as aforesaid.

Fletcher, Fletcher & Co.

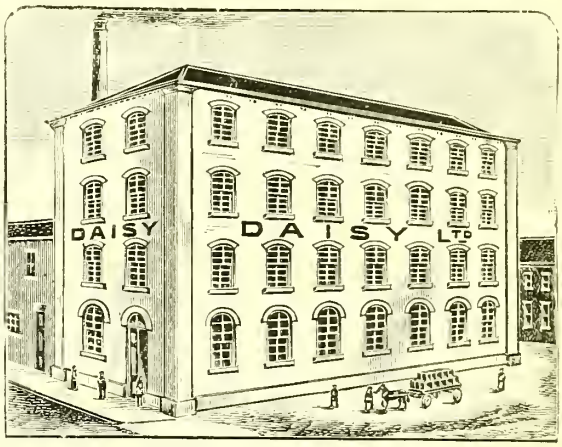
HOLLOWAY, LONDON, N.

GRAND OPENING

DAY OF THE

New Daisy Factory

August 23rd, 1897



(The Company's Latest Acquisition.)

The Sender of the first opened names his own reward.

We give the Chemist an article he can *Sell*. We guarantee him a good profit. We see no man takes that profit away. We vigorously advertise. Daisy sells like ripe cherries, and again and again have we been compelled to extend our borders. We have recently added another factory to our already large premises, and think the occasion worthy a little ceremony of a practical nature. In the first case, we shall give our employés on this date a substantial treat. For our customers we have arranged the following various considerable concessions, which will be allowed on this day only:—

The first Order opened with cash enclosed will be *doubled*. The letter-box will be opened in the presence of the Governing Director, on Monday morning, August 23rd. The topmost letter opened containing order, with cash enclosed, will receive double the quantity ordered, carriage paid, and a settled note for the lot. A short while ago, a retail chemist (one shop) ordered £40 worth of Daisy. Were he to again order this quantity, and be fortunate in having his order the first opened on the opening day, he would receive on best terms £80 worth, retailing over the counter for £170, for his remittance of £40.

For every dozen ordered (letter received by us not later than August 23), and cash enclosed with order, we will send 1,000 nicely printed card coupons for free samples, with your own name in bold type printed on each. We will allow 2*s*. 6*d*. per 1,000 in Daisy powders for the distribution of the coupons from door to door.

OR, should you prefer it, we will send a neat window bill, about 14 by 8, one bill with every dozen, and allow a 13½*d*. box per bill for gumming same inside the window-pane, and showing three weeks.

OR, to those preferring our mutual advertising bills, we will print 5,000 demy 8vo (7 by 5) on ordinary paper, any wording, on one side, with an order for three dozen 13½*d*. Daisy, or equivalent; cash to be enclosed with order, or will not obtain concession.

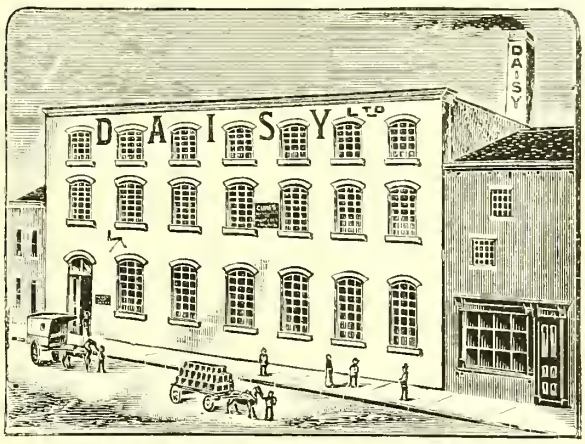
FOR FURTHER CHOICE OF CONCESSIONS SEE NEXT PAGE.

DAISY, Limited, THE TWIN DAISY FACTORIES, LEEDS

Private Wire between. Telegrams—"DAISY LEEDS." Established 1850.

OMETHING for NOTHING

r be obtained by eiling us an order ad posting



(The Company's past and present Factory.)

that we obtain it on Monday morning, August 23.

See other page.

ering-Day Concessions, continued: -

, should you prefer the gift or loan of a *working figure*, instead of the foregoing, with orders of three dozen 13½*d.* or equivalent (opening day only), with cash enclosed—

We will *give free*, a capital figure, "THE DAISY FOOTMAN." Respectfully raises his hat to every customer opening the door. Lithographed on compressed millboard, lettered in gold.

We will loan for three weeks' free use, carriage paid both ways: (*a*) Policeman, dressed in real clothes, staff in hand, nodding his head; (*b*) Pleasant-faced masher, turning his body, and holding a box of "Daisy"; (*c*) A many-sided conical mirror, with an internal revolving bunch of artificial flowers, reflected many times on the different facets (*a*, *b*, *c* run six hours with each winding); (*d*) Pneumatic "Daisy" Pugilists, very comic, worked by the shop boy from behind, at intervals during the evening.

last but by no means least, with six dozen 13½*d.* or equivalent (Opening day only, cash with order), we will send for three weeks, carriage paid both ways, the attractive, well-got-up model of our smart man display. It opens its eyes, turns its head, and points to a signboard. Very attractive, indeed, although model only sent, and no display material.

Addition to above concessions the first order, with cash, opened, gets doubled free.

Be sure to post that we *receive* your order on August 23. If after this day it will NOT get the opening-day concessions.

en ordering state which one Concession you desire. Every order, in addition, stands a chance of being doubled free.

Goods sent on receipt of order, and Model as early as possible.

COUNCILLOR WORMALD, *Director.* | THOS. PEARSON, F.R.G.S., *Secretary.* | *Governing Director*, JNO. R. ELLIS.

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SESSION 1897-98.

[*The Classes for Women in Medicine and Arts are conducted in a separate building (Queen Margaret College), and are taught by Professors of the University and other Lecturers appointed by the University Court. For details see separate advertisement.*]

THE MEDICAL SESSION will be opened on THURSDAY, OCTOBER 14, 1897.

WINTER COURSES.

Zoology, 9 a.m.; and Zoological Laboratory, 10 a.m. to 1 p.m.—Professor Young, M.D.

Clinical Medicine, 9 a.m.—Professor M'Call Anderson, M.D., and Professor Gairdner, M.D., LL.D., F.R.S.

Clinical Surgery, 9 a.m.—Professor George Buchanan, M.A., M.D., LL.D., and Professor Macewen, M.D., LL.D., F.R.S.

Chemistry, 10 a.m.; and Chemical Laboratory, 10 a.m. to 4 p.m.—Professor Ferguson, M.A., LL.D., F.S.A.

Anatomy: Senior, 11 a.m.; Junior, 1 p.m.; and Practical Anatomy, 9 a.m. to 4.45 p.m.—Professor Cleland, M.D., LL.D., D.Sc., F.R.S., and Demonstrators.

Physiology, 12 noon; and Physiological Laboratory, 10 a.m. to 4 p.m.—Professor M'Kendrick, M.D., LL.D., F.R.S., assisted by D. Fraser Harris, B.Sc., M.B., the Muirhead Demonstrator.

Materia Medica and Therapeutics, 1 p.m.; and Pharmaceutical Laboratory.—Prof. ———

Pathology, Systematic, 3 p.m.—Professor Joseph Coats, M.D.

Surgery, 12 noon.—Professor Macewen, M.D., LL.D., F.R.S.

Midwifery, 2 p.m.—Professor Cameron, M.D.

Practice of Medicine, 11 a.m.—Professor Gairdner, M.D., LL.D., F.R.S.

Ear, 4 p.m. Tues. (University), 4 p.m. Wed. (Practical Instruction).—Thomas Barr, M.D.

Throat and Nose, 4 p.m. Fri. (University); Mon. or Thurs. (Western Infirmary).—James Walker Downie, M.B.

SUMMER SESSION, 1898.

During the Summer Session, which opens on *April* 19, the Courses of Physics (Dr. M. Maclean), Botany (Professor Bower), Practical Chemistry, Medical Jurisprudence and Public Health (Professor Simpson), Clinical Medicine, and Clinical Surgery are given. There are also Courses of Anatomy (Lectures on Embryology), Practical Anatomy, Practical Zoology, Vegetable Histology, and Practical Botany, Practical Physiology (including Histology), Practical Materia Medica, Practice of Medicine, Practical Pathological Histology, Practical Pathology, Operative Surgery, and Lectures on Diseases of Women, Diseases of the Ear, and Diseases of the Throat and Nose.

Eye.—Thomas Reid, M.D., Waltonian Lecturer.

Insanity.—David Yellowlees, M.D., LL.D., Royal Asylum, Gartnavel.

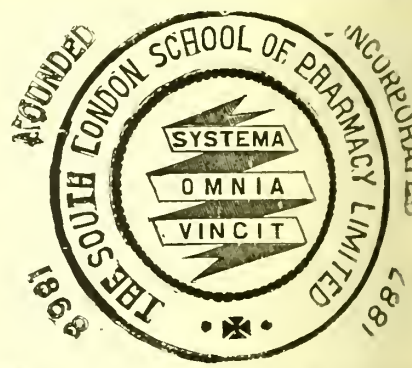
WESTERN INFIRMARY.—This Hospital, near the University, contains 400 Beds for Medical and Surgical Patients, also Wards for Skin Diseases, and one for Diseases peculiar to Females.

DEGREES.—Four Medical Degrees are conferred under the new regulations, viz.: Bachelor of Medicine (M.B.) and Bachelor of Surgery (Ch.B.), which must be taken together; Doctor of Medicine (M.D.) and Master of Surgery (Ch.M.); all of which are recognised by the Medical Acts as qualifying for Practice throughout the British Dominions.

FEES.—The Fee for each systematic class is, as a rule, £3 3*s*. The Fee for M.B. and Ch.B. is £23 2*s*.; for M.D. £10 10*s*.; and for Ch.M. £10 10*s*.

BURSARIES.—Bursaries to the annual amount of £630 are restricted to Medical Students, whilst Scholarships and Fellowships to the amount of upwards of £1,600 may be held by Medical Students who have gone through the Arts Course.

Full particulars as to the course of education and examination required for the Degrees, and the Preliminary Examination required to be passed by Students before beginning medical study, will be found in the University Calendar (by post, 3*s*. 4*d*.); or a Syllabus of the Regulations, Fees, &c., may be obtained by applying to Mr. W. INNES ADDISON, Assistant Clerk.



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The Laboratories of this School (chemical, physical, pharmaceutical and biological) are very complete, that devoted to Pharmacy *having a manufacturing-plant.* The fees are as low as is compatible with a liberal expenditure of materials and are absolutely inclusive (*there be no extras of any kind*), while the success attained during the last 27 years is too well known to require comment.

A fresh course of Lectures (commencing at the foundation of each subject) is begun in September, January, and April.

For Syllabus, Terms, &c., apply to the Secretary, at the Office, 325 Kennington Road.

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PADDINGTON, W.

THE WINTER SESSION begins on OCTOBER 1st, with an introductory Address at 4 P.M. by Dr. GOW.

The ANNUAL DINNER will be held in the Evening, at the Hall, Holborn Restaurant, Mr. A. J. PEPPER, F.R.C.S., in the Chair.

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One of £144, two of £78 15*s*., one of £52 10*s*., two of £57 15*s*. (the two open to Students from Oxford and Cambridge), will be awarded by examination on September 22nd and 23rd.

There are Sixteen Resident Appointments in the Hospital open to Students without expense. The School provides complete preparation for the higher Examinations and Degrees of the Universities. Special attention is directed to the fact that the authorities of the Medical School have for the first time thrown open all the Special Classes for the higher Examinations free to Students.

The Residential College is at present at 33 & 35 Westbourne Terrace, W. Terms may be had on application to the Warden, Mr. H. S. Collier.

CLARENCE MEMORIAL WING.

The Foundation Stone of this important addition to the Hospital was laid by H.R.H. the PRINCE OF WALES, and the first portion, the new Out-patients' Department will be finished in September next. The New Wing will provide a new Out-patients' Department, Wards for Women, and a Residential College for Medical Officers and Students who will then be close to their work and directly under the influence of the Medical School.

HOSPITAL STAFF.

Consulting Physicians—Sir Edward Sieveking, M.D.; Sir William Broadbent, Bart., M.D.; Dr. Braxton Hicks, F.R.S. (Accoucheur). *Consulting Surgeons*—Mr. H. Spencer Smith; Mr. H. Howard Hayward (Dental). *Physicians*—Dr. Cheadle, Dr. Lees, Dr. Sidney Phillips; Out-patients—Dr. R. Dr. A. P. Luff, Dr. H. A. Cayley. *Physicians Accoucheur*—Dr. Handfield-Jones, Dr. W. J. Gow (Out-patients). *Surgeons*—Mr. Owen, Mr. Herbert W. Page, Mr. A. J. Pepper; Out-patients—Mr. Silcock, Mr. J. Ernest Lane, Mr. H. S. Collier. *Ophthalmic Surgeons*—Mr. G. A. Critchett, Mr. H. Juler. *Aural Surgeons*—Mr. G. P. Field, Dr. Hill (Out-patients). *Skin Department*—Mr. Malcolm Morris. *Dental Department*—Dr. Scanes Spicer. *Dental Surgeon*—Mr. Morton S.

OTHER LECTURERS, &c.

Physiology—Dr Waller, F.R.S.; Mr. W. L. Symes (Assistant). *Chemistry*—Dr. A. P. Laurie, M.A. *Mental Diseases*—Dr. T. B. Hyslop. *Tropical Diseases*—Dr. John Anderson, C.I.E. *Electro-Therapeutics*—Dr. Agnew. *Biology*—Mr. W. G. Ridewood. *Anæsthetics*—Mr. Henry Davis. *Physician*—Dr. John Broadbent. *Medical Registrar*—Dr. Poynton. *Surgical Registrar*—Mr. W. V. Low. *Bacteriologist*—Mr. H. G. Plimmer.

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'h next Term will begin on August 16th, and will ud in addition to the courses for the January Minor and Major m tions, a Short Course for Advanced Students for the co Examinations.

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ASSISTED BY MR. F. LAWSON, PH.C.

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MAJOR.—Mr. H. S. Hankinson, Manchester; Mr. H. Roberts, Bowdon; Mr. T. W. Smith, Whitby.

MINOR.—Mr. B. Ascroft, Wigan; Mr. J. T. Brown, Hanley; Mr. C. Dean, Bury; Mr. E. R. Dixon, Leeds; Mr. J. W. B. Errington, Penrith; Mr. W. Garsed, Elland; Mr. E. W. Jones, Manchester; Mr. W. H. Orrell, Bolton; Mr. S. Wild, New Mills.

A very large percentage of the above passing at their First Attempt.

The NEXT FULL TIME COURSE for Minor and Major commences on AUGUST 26th. EVENING COURSE on SEPTEMBER 1st. AFTERNOON COURSE on August 31st.

Short Course for October Examination on August 20th. Early application is advised. Prospectus on application.

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That our Class-rooms and Laboratories are admittedly second to none in Fitting and Equipment, and that our System of Teaching is Thorough, Practical, and Systematic, as has been proved by the Continued Success of our Students.

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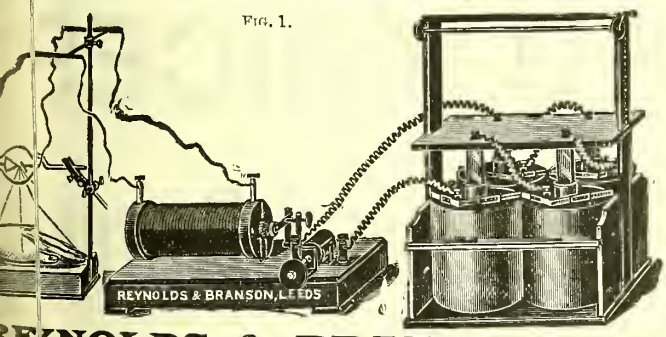
Syllabus and particulars may be had on application.

ITS OF SUPERIOR APPARATUS.

FIG. 1.



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Cors J. R. | Harrie, J.

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Hun il János
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Stev on & Howell

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Tyle ayward, & Co.
Volc Aeration Co.

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Beyr & Co. | Boise
Goeg
Gran Pharmacie Finck
Kem orne, Prosser & Co.
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Lüneburger Wachsbleiche

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Whittaker & Co.

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Breffitte, Lim.
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Lynch & Co., Lim.
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Hovenden & Sons
Kent, G. B., & Sons

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Sangers, J., & Sone

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Jackson, T.
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Warrick Bros.

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Moss, J., & Co.
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Lofthouse & Saltmer
Warrick Bros.

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CHALK, PRECIP.
Levermore, Aug., & Co.

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Evans, Sons & Co.
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Goodall, Backhouse & Co.
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Washington Chemical Co.
White, A., & Sons
Zimmermann A. & M.

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Stokes, G. R., & Co., Lim.

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Schutze & Co.
Solport Bros.
Wood, Vincent

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Hebden, W. C.
National Chemical Co.
Steele, J. C., & Co.

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Davenport (Browne's)

CHLOROFORM
Duncan, Flockhart
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Kemp & Son
Lorimer & Co.
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Wilcox & Co.

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Caffyn's Malto-Carni (Bovril Lim.)
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Van Houten
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Evans, Sons & Co.
Freudenthill & Co.
Harker, Stagg & Morgan
Hill, A. S., & Sons
Kemp & Son
Lofthouse & Saltmer
Lorimer & Co.
Moss, J., & Co
Morrison, R., & Co.
Oppenheimer, Son & Co., Lim
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Scott's Emulsion
Southall, Bros. & Barc ay
Stevenson, H. E., & Co.
Wright, Layman & Umney

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Mumford, G. S.

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Hovenden & Sons
Jewsbury & Brown
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Sutton, O., & Co.
Woods, W. (Areca Nut)

DENTISTRY
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Fentiman, A. G
Fentiman & Co

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Southall Bros. & Barclay

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Calvert, F. C., & Co.
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Fletcher Bros. & Co.
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Government Sanitary Co.
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Hebden, W. C. | "Izal"
Jeyes'Sanitary Compounds Co.
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Mackey, Mackey & Co.
May & Baker, Lim.
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"Nestor" Sanitary Fluid Co.
Read, Holiday & Co.
Sanitas Co., Lim.
Steele, J. C., & Co.
Tuson's Disinfectants Co., Ld.
Tyrer, T., & Co.
United Alkali Co., Lim.

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Lloyd, T. Howard
Spratt's Patent, Lim.

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Ayrton & Saunders
Barclay & Sons, Lim.
Bentley, E., & Son
Bleasdale & Co., Lim.
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Cartwright, A. S.
Evans, Lescher & Webb
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Hovenden & Sons
Kay Bros., Lim.
Marshalls, Lim.
Maw, S., Son & Thompson
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Moise, B. F., Lim.
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Potter & Sacker
Quelch, H. C.
Sanger & Sons | Schutze & Co.
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Tidman & Son | Toogood, W.
Wood, Vincent

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Kuhn, B.
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Maypole Soap Co., Lim.

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Greiner G., & Co.
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Elliman, Sons & Co.
Harvey & Co.
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Sanger & Son | Wood, Vincent

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Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
May & Baker, Lim.
Newball & Mason
Stevenson & Howell
Todd, A. M.
Tyrer, P. (Anchovies)
Woolley, Sons & Co.

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Blackwell, Hayes & Spilsbury
Boehm, Fredk.
Bush, W. J., & Co.
Evans, Sons & Co.
Frankenstein, S. M., & Co.
Jakson, J., & Co.
Jeancard, Gazan & Doumin
Lofthouse & Saltmer
May & Baker, Lim.
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Sozio & Andrioli
Spurway & Cie.
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Stevenson & Howell
Todd, A. M.
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Treatt, R. C. | Warrick Bros.
Wright, Layman & Umney

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Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

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Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Wright, Layman & Umney

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Ransom, W., & Son

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Hovenden & Sons
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May, Roberts & Co.
Youldon, E.

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Mawson Filter Co.

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Ford, Shapland & Co.
Marshalls, Lim.
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Strong, Christy
Tunbridge & Wright
Tyrer, P.

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Burgoyne, Burbidges & Co.
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Horlick & Co.
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Kydde & Co.
Lazenby & Son, Lim.
Liebig Co. | Lorimer & Co.
Marshalls, Lim.
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Savory & Moore | Tyrer, P.
Vi-Cocoa (Dr. Tibbles)

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Brauer, A.

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Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard & Co.
Lofthouse & Saltmer
Tyrer, T., & Co.
Wright, Layman & Umney

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Fink & Co. (Arabic, &c.)

HAIR PREP.
Alexandre's Shadeine
Chesebrough Co.
Edwards & Co.
Thiellay, E. H

HERB BEER EXTS.
Adams, B.
Newball & Mason
Potter & Clarke

HOMŒOPATHIC
Keene & Ashwell
Leath & Ross
Watson & Wates

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Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyrer, T., & Co.

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Burroughs, Wellcome & Co.
Krohne & Sesemann
Lynch & Co., Lim.
Sanitas Co., Lim.

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Bleasdale, Lim.
Fleming's Oil & Chemical Co., Lim.
Jackson, T.
Rudkin's Moth Bricks
Sanitas Co., Lim.
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Evans, Sons & Co. (Savarini)
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Hillaby, J.
Lorimer & Co.
"Solazzi"

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Blackwell, Hayes & Spilsbury
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Fletcher, Fletcher & Co.
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Moss, John, & Co.
Oppenheimer, Son & Co., Lim.
Stevenson, H. E., & Co.

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Fitch & Nottingham

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Allen & Hanburys
Davies, Gibbins & Co.
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Zimmer & Co.

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Bennett, Sons & Shears, Lim.
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Meiln, C. | Pindar, J. W.
Volcanic Aeration Co.
Werner, Pfleiderer & Perkins, Lim.

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Bleasdale, W., & Co.
Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Lloyd, T. Howard, & Co.
Washington Chemical Co.

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Allen & Hanburys
Anderson & Co.
Blackwell, Hayes & Spilsbury
Burroughs, Wellcome & Co. (Kepler's)
Davies, Gibbins & Co.
Distillers' Co., Lim.
Evans, Gadd & Co.
English Diastasic Malt Extract Co., Lim.
Hearon, Squire & Francis
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Robinson & Co.

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Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL
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Evans, Lescher & Webb
Maw, S., Son & Thompson
Tyrer, P.

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May & Baker, Lim.
Tyrer, T., & Co.

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Jones & Co. | Phillips, G., & Co.
Smith, S., & Co.
Warren, A. & J.

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Robbins, J., & Co.

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MILK
Hawkesley, T. (Sterilize
Horlick & Co.
Nestlé, H. (Condensed)

MORPHIA
Beynon & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

OILS, &c.
Anglo American Drug Co.
Calvert Bros. & Co.
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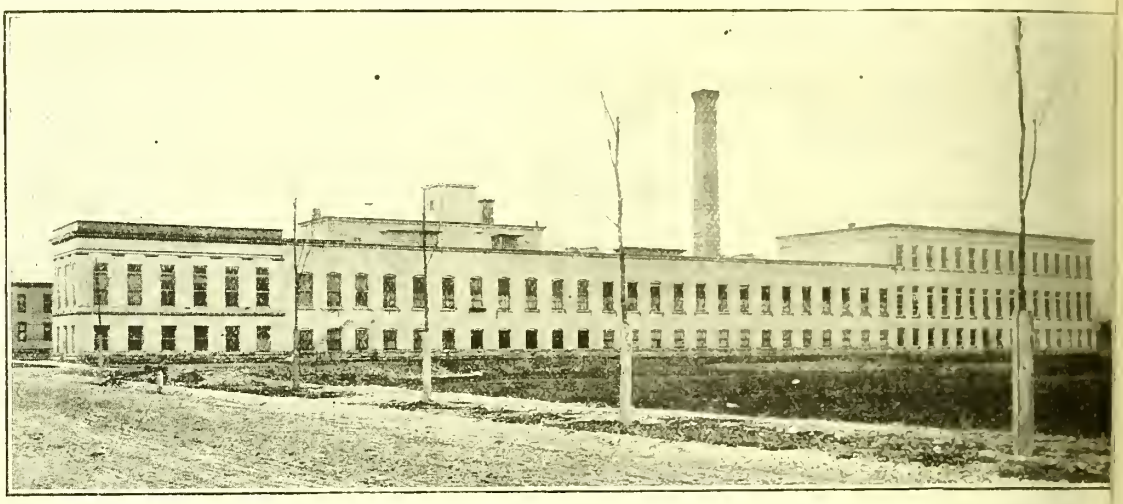

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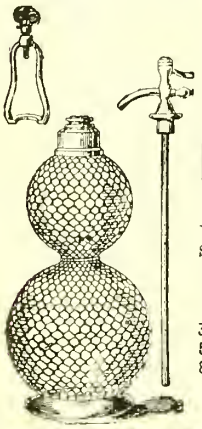

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ou oule (La)	11/-	—	50	42/-	—	—
ar ad	12/-	—	50	46/-	—	—
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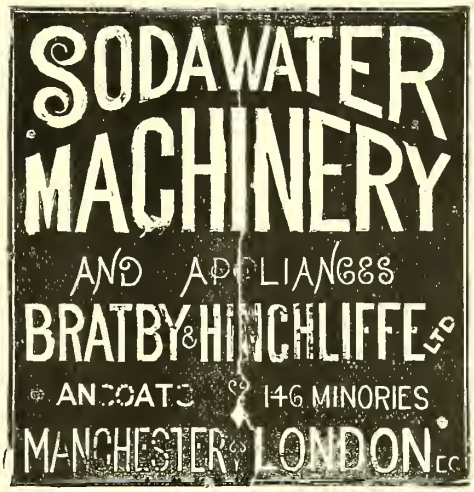
on xeville	9/-	—	50	35/-	—	—
lit ck	24/-	15/-	—	—	—	—
ra Josef...	12/-	10/-	25	22/6	50	35/-
rie ichshall	13/-	10/-	25	25/-	50	40/-
er tein	5/-	4/-	50	20/-	50	15/-
IUNYADI-JÁNOS ...	12/-	10/-	25	22/6	50	35/-
ohe is	5/6	4/-	50	20/-	100	32/-
Kro quelle	9/-	—	50	36/-	—	—
evi	—	15/-	—	—	—	—
ber unnen	8/6	—	50	35/-	—	—

NAME	Per Dozen Bots.	Per Dozen ½ Bots	Original Packages Bottles	Original Packages Bottles	Original Packages ½ Bottles	Original Packages ½ Bottles
Pitkeathly	—	3/6	—	—	—	—
Pullna	12/-	8/-	40	36/-	40	25/-
Reginaris	5/6	4/6	50	21/-	50	17/-
Roisdorf	5/6	4/6	50	22/-	100	35/-
Rosbach	5/6	4/-	50	20/-	100	32/-
Royat	9/-	—	50	34/-	—	—
Rubinat	15/-	8/-	25	30/-	100	60/-
St. Galmier	6/-	4/6	50	22/-	100	34/-
St Marco	11/-	6/6	50	42/-	100	52/-
Salutaris (not carriage paid)	4/-	2/6	—	—	—	—
Selters...	6/-	4/6	50	24/-	50	17/-
Vals	8/6	—	50	33/-	—	—
VICHY (State Springs), "Celestins," "Hôpital," "Grande-Grille," &c. ...	**8/6**	**6/6**	**50**	**33/-**	**50**	**25/-**

DISCOUNT ALLOWED ON LONDON ORDERS *DETAILED PRICE LIST & PAMPHLET ON APPLICATION.*

SYPHONS & SELTZOGENES

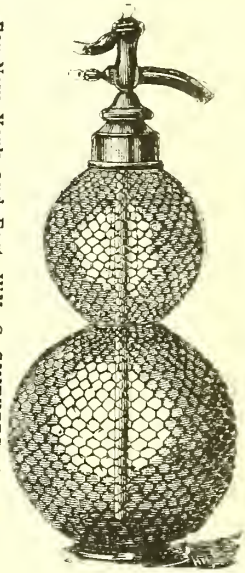
Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus Street, Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.
Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.



81 ROBERTSON STREET, GLASGOW.

American Agents.—For New York and East, WM. G. SMITHERS, 11 Duane Street, New York.
For Chicago and West, VICTOR BAROTHY, 409 Dearborn Street, Chicago.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



PRICES

SYPHONS ... 1/6, 1/8, and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.
The tops of these Seltzogenes are made of pure block tin, guaranteed.

A copy of our Book of Instructions for the manufacture of Aerated Beverages will be presented to purchasers.

ADAMS'S EXTRACT
FOR
HERB BEER

QUALITY AND FLAVOUR UNIQUE.

Certificate of Analysis from GRANVILLE H. SHARPE, F.C.S.

I have submitted to a very careful analysis a sample of ADAMS'S EXTRACT OF HERBS and find it be a highly concentrated preparation composed of judiciously selected herbs in combination with hops, and in the manufacture of which much skill and scientific judgment have been exercised.

It contains in an admirable and attractive form valuable tonic, stomachic, and dietetic properties, and there is an entire absence of undesirable admixture in any form.

It should prove a valuable acquisition in the world of non-intoxicating drinks, as when used according to directions it produces a beverage of high merit, refreshing and palatable to the taste and wholesome and invigorating to the system.

PROPRIETOR—

B. ADAMS, MANSFIELD

When applying for quotations please state approximate requirements in Bulk or Packed.

Secure this Agency! Look at the terms!

HOLLOWAY'S

Sale or Return.

33⅓ % discount.

COCA WINE

Guaranteed made from the Leaf.

Carriage Paid.

Cases Free.

THE BEST. Write for Particulars,

E. A. HOLLOWAY, A.P.S., TORQUAY.

N.B.—We guarantee to create demand at once.

Re

COLEMAN'S Wincarnis

COLEMAN'S Crown Imperial Inval Champagne

COLEMAN'S Coca Wine

COLEMAN'S Wincarnis with Quini

COLEMAN'S Coca Wine with Quini

The above Medicated Wines, with the exception of Wincar with Quinine and Coca Wine with Quinine, cannot be without a Foreign Wine Licence.

Under certain conditions Messrs. COLEM & CO., Limited, are prepared to Pay for Foreign Wine Licence.

FOR PARTICULARS APPLY TO

MESSRS. COLEMAN & CO., LT.

Wincarnis Works, NORWICH.

Seasonable SUMMER SUNDRIES

SURE TO SELL IF SHOWN.

Menthols, Spray Producers, Flesh Gloves. Babies' Soothers, Soap Tooth Brushes, Hair Brushes, Sponge Wrappers and Bags, Bathing Smelling Salt Bottles, Lavender Smelling Salts, Tooth Powders and Pastes, Perfumes, Toilet Papers, &c., &c., will all be found in great in FRANCIS NEWBERY & SONS' NEW PRICE LIST. A good assured to Chemists, and satisfaction to consumers.

OLD LONDON INSECT POWDER

In 1d., 3d., 6d. and 1/- Tins. All neatly wrapped, and without proprietors' name. Net prices per doz. 6d., 1 9, 3/-, and 6 -.

ST. PAUL'S CHERRY TOOTH PASTE

6d. pots, per doz., 3/6; 1/- pots, per doz., 7/-.

NOTE.—No proprietors' name on above, only Trade Mark. Wholesale from the Proprietors,

FRANCIS NEWBERY & SONS

Druggists' Sundriesmen, Perfumers, & Dealers in Photographic Materials,

1 & 3 KING EDWARD ST., LONDON, E.C.

"Hall's Wine"

Window Show

Competition.

£325 IN PRIZES.

irst Prize	-	£30	5	Prizes	of	£5 each
econd „	-	£20	20	„		£2 „
hird „	-	£10	100	„		£1 „

200 Consolation Prizes of 10s.

A number of our customers having requested us to have another Window Show Competition, we ave pleasure to announce that we offer **£325**, divided into 327 prizes, as above. The experience of ur first competition in 1895 has led us to slightly alter our conditions.

We shall send the same number of dummies and showcards to **every competitor**, and the pri s will be awarded to those who show the greatest artistic taste in their arrangement.

In the previous competition Mr. R. LEITHEAD, West Hartlepool, gained Second Prize with three do n dummies; this number, therefore, will be sent to each competitor.

CONDITIONS.

Only retailers who stock "Hall's Wine" and have signed our non-cutting agreement can compete.

Competitors may use advertising matter other than that supplied by us.

The Judges will be the Staff of *Tit-Bits* assisted by Sir GEORGE NEWNES, Bart., whose decision will be nal, and the prizes will be awarded in strict accordance with artistic merit.

The proprietors will forward the dummies carriage paid.

The Competition commences on August 23rd, 1897, and the window must remain dressed until Se ember 6th, 1897.

Each competitor must forward a photo of his window, at his own expense, on the back of which his ame must appear.

STEPHEN SMITH & CO. (LIM.),
Proprietors of "Hall's Wine."

Malmesbury Road, Bow,
London, E.

DR. TIBBLES' VI-Cocoa

THE WHOLESALE PRICE.

RETAIL PRICE.	PER DOZEN.
6d. Packets (Two Dozen in a box)	5/-
9d. Tins (Two Dozen in a box)	7/6
1/6 Tins (One Dozen in a box)	15/-

DISCOUNTS.

5 per cent. Discount on Orders up to £5.
7½ per cent. Discount on Orders for £5 and upwards.
Terms—Cash within 7 days.
Carriage Paid on Orders value £2 and upwards.

N.B.—The above Discounts are from 3¾ to 6¼ per cent. better than can be obtained from any other source, whilst the merits of DR. TIBBLES' VI-COCOA are greater than any other similar preparation in the world.

LIMIT OF CUTTING.

The Proprietors hereby give notice to the Trade that the limit of "cutting" prices of DR. TIBBLES' VI-COCOA has been fixed as under:—

6d. Packets to be sold at not less than 5½d.
9d. Tins ,, ,, not less ,, 8½d.
1/6 Tins ,, ,, not less ,, 1/4½

Full Prices to be obtained wherever possible.

FURTHERMORE,

Any Chemist, Grocer, or Stores cutting below these prices will be refused supplies direct from ourselves. And in this connection it is important to note that in £5 and upwards no trader in the kingdom, "Wholesale or Retail," can obtain more than the 7½ per cent. discount we offer.

Furthermore, as we pay carriage on orders value £2 and upwards, it will not be possible to obtain the advantage of this concession, nor that of the exceptional discounts we offer, unless our ruling as to the "cutting" price is complied with.

Read the foregoing, send your order to

DR. TIBBLES' VI-Cocoa Ltd.,

60, 61, and 62 BUNHILL ROW, LONDON, E.C.

And obtain your fair share of the profits that are daily being made by our customers everywhere.

THE MOST ECONOMIC, CONVENIENT, & PORTABLE FORM OF SOUP.

LAZENBY'S SOUP SQUARES

(MULLIGATAWNY, GRAVY, JULIENNE, ETC.)

FOR MAKING FRESH SOUP, OR IMPROVING HOME MADE STOCK.
EACH SQUARE WILL PRODUCE

1½ PINTS OF STRONG NUTRITIOUS SOUP

Prepared by E. LAZENBY & SON, Ltd 18, Trinity St., LONDON, S.E.

DIASTASED FARINA FOOD

A New and Very Superior Food for Infants, Delicate Children, and Invalids. The great desideratum of a Food for Infants, Delicate Children, and Invalids is easiness of digestion, simplicity of preparation, and power of restoring strength; for these purposes it is superior to any other Food.

RETAIL PRICE 1/6 PER TIN.

A totally unsolicited Report of a Medical Man's experience with the Diastased Farina Food.

YORKSHIRE, December 2, 1896.

DEAR SIRS,—Since August I have been trying your "Food," and I am well satisfied with the result. Milk is the most perfect food, but when you have to reckon with a low type of stomach, or a poor class of milk, assimilation is imperfect, dyspepsia frequent. The addition of your "Food" prevents the latter and hurries the former. I have had admirable results in the treatment of Phthisis, Chlorosis, Gastric Ulcer, Atonic Dyspepsia, and Neurasthenia.

Manufacturers:—E. BEANES & CO., Hackney Wick, LONDON, E.

FOR INFANTS & INVALIDS

KYDDE'S FOOD

(MALTED)

IS UNEQUALLED.

Price 1/6 per Tin.

To be obtained from all the principal Patent Medicine Houses. Wholesale Prices upon application.

KYDDE & CO.

10 SOUTHWARK BRIDGE ROAD, LONDON, S.E.

REGISTERED.

CEREAL FOODS.

MANHU
Infants' Food (Nutritious and Safe).

MANHU
Prepared Groats, Barley, &c. Pure, for Invalids.

MANHU
Gluten Flour and Gluten Biscuits, for Diabetics, &c.

ALL BRITISH MANUFACTURE.

Awarded GOLD MEDAL at Food and Cookery Exhibition, 1897.

IRVING, SON & JONES,
LIVERPOOL.

SCOTT'S EMULSION

of Cod-liver Oil with Hypophosphites of Lime and Soda has for over twenty years been endorsed and prescribed by Physicians in all parts of the world.

It is the STANDARD EMULSION, and can always be relied upon as being the MOST PERFECT, PERMANENT, and PALATABLE Emulsion in the market.

REGISTERED TRADE MARK.

Scott's Emulsion does not separate, and keeps well in all climates.

SCOTT & BOWNE, Ltd., 95-98 Great Saffron Hill, London, E.C.

TIDMAN'S SPECIALITIES

5 PER CENT. DISCOUNT FOR CASH. £5 Orders Carriage Paid in United Kingdom

Tidman's Sea Salt	(bags to retail at 1*d.*)	8/3	per Gross
" "	(packets " 1½*d.*)	12/3	"
" "	(3-lb. boxes) ...	5/3	per Doz.
" "	(7-lb. ") ...	10/3	"
" "	(14-lb. ") ...	18/9	"
" Glycerine and Cuc. Soap ...		1/6	"
" White Rose and Cuc. Soap		1/6	"
" Marshmallow Soap		1/6	"
" Eucalyptus Soap		1/6	"
" Oatmeal & Coal Cream Soap		1/6	"
" *Cold Cream and Glycerine		1/6	"
" *Sulphur Soap		1/6	"
" *Sulphur & Glycerine Soap		1/6	"
" *Musk Brown Windsor Soap		1/6	"
" *Cold Cream and Cuc. "		2/0	"
Wesley's Carpet Soap		3/0	"
" Coal Tar Soap		1/6	"
" Carbolic Toilet Soap ..		1/6	"

All the above Soaps are wrapped in attractive Wrappers, and packed in Boxes of 1 doz. Tablets.

*Marked * are Milled Soaps.*

Tidman's 4d. Salicylic Soap ...	7/6	per Doz. Tablets
" 6d. " " ...	10/6	"
" Creamoline " ...	8/6	"
" Assorted Toilet Soaps	5/0	"

The above are all wrapped in attractive Wrappers and packed in Fancy Boxes containing 3 Tablets.

Tidman's Assorted Toilet Soaps 12 unwrapped ¼-lb. Tablets in Box ..	15/0	per Doz. Tablets
Tidman's Round Rose Soap, Milled, 1 doz. in Box	18/0	"
Wesley's Petroleum Pomade, 6*d.* size	3/0	per Doz.
" " " 1*s.* "	6/0	"
" Linen Glaze, 1*d.* size ...	-/6	"
" " " 3*d.* " ...	1/6	"
"Kaiser" Eau de Cologne, 2 oz....	6/6	"
" " 4 " ...	12/0	"
" " 12 " ...	34/0	"
" " Wickered, ½ Pint	19/0	"
" " " 1 "	36/0	"

SPECIAL LINE.

CORN AND WART SOLVENT, retail at 4*d.*; 1 dz. on card, 2*s.* 4*d.* per doz.; 24*s.* per gross.

Special Quotations for Quantities.

TIDMAN & SON, LIMITED

Bushell Street, Great Hermitage Street, and High Street (Melbourne Wharf), WAPPING, E.

Telegraphic Address—"BLUEBERRY LONDON." (Near the Tower Bridge and the Docks.) Telephone No. 392, Avenue.

Customers calling and selecting their own Goods to the value of £5 and upwards will be credited with cost of Cab Hire from City if incurred.

PETER TYRER'S
SUMMER LINES.

ALLINSON'S HIGH-CLASS
CUSTARD POWDER.

	s.	d.
se ... ... gross	7	0
kes ... ... doz.	3	6

ALLINSON'S HIGH-CLASS
BLANCMANGE POWDER.

se ... ... gross	8	6
kes ... ... doz.	4	3

PURE CORN FLOUR.

b. ackets (3 doz. in a box) ... ... box	2	0
b. ackets (1 doz. in a box) ... ... "	1	2
b. 14 lb. bags ... ...cwt. 12s. and	16	0

FLAVOURING ESSENCES.

aorted (on 3-doz. cards) ... ... gross	8	6
z. ottles ... ... doz.	2	3

SALINE POWDERS.

¼-oss glass-top boxes ... ... gross	2	9

GENUINE SEIDLITZ.

1-z. fancy boxes, or ¼-gross glass-top ... "	5	0

TYRER'S DELICIOUS HOME-MADE
LEMONADE.
INSTANTLY MADE by the simple addition of water.

	s.	d.
In 1d. bottles ... ... gross	8	6

INSECT POWDER.

1d. tins ... ... gross	5	3
3d. tins ... ... "	24	0
6d. tins ... ... "	42	0

"DRAGON" FLY-LURE
STICKY FLY PAPERS.

½d. size ... ... gross	3	0
1d. size ... ... "	5	0

DEODORISING TABLETS.
Assorted Colours, with wire loop for hanging up.

Large size 1d. ... ... gross	4	6

In ½-gross wooden boxes.

TENDER-FOOT POWDER.
FOR TENDER FEET.

1d. packets ... ... gross	6	0

For sums under £1 please remit Postal Order, NOT CHEQUE.

ETER TYRER, 70 Long Lane, Borough, LONDON, S.E.

GUEST & CO.
Y WORKS, CARRUTHERS STREET, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

P. T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—
ycrine and Black Currant, &c. Granular and all other Effervescing Preparations.
Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.
TELEPHONE 235. TELEGRAMS "GUESTO."

MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

BURROUGH'S "RED CROSS BRAND"
COCA WINE.

CALE STREET DISTILLERY,
CHELSEA,
LONDON, S.W.

WRITE FOR PRICES AND SAMPLES.

Dr. A. B. GRIFFITHS says, "Second to none in the market."—*Aug.* 24, 1896.

Also S.V.R. & S.V.M.
At Lowest Prices.

MESSRS. D. & W. GIBBS, LD.

CITY SOAP WORKS,

LONDON.

Offices and Showrooms:

16 FINSBURY CIRCUS.

D G W

Trade Mark. Registered

THE ORIGINAL SUPERFATTED AND FAMOUS

COLD CREAM SOAP

"Otto,"
"Toilet,"
"Medicated."

Wrapped and Cartooned in 1 do n or ¼ dozen Boxes.

This Soap is delicately Perfumed, and made with e utmost care from the finest materials only, an a Certificate of Purity is given with each tablet. The al e are protected by our Registered Trade Mark given above, d every wrapper bears this, so that customers are warned ag st worthless imitations.

COLD CREAM SHAVING SOA

Messrs. GIBBS have at last succeeded in giving their customers a Shaving Soap w b is far ahead of anything yet produced.

Look to your Stock

OF

MAYPOLE SOAP.

The Demand is Phenomenal!

B. F. MOISE MANUFACTURING LTD. PERFUMERS.

51 MILTON STREET E.C. LONDON.

TOILET PREPARATIONS IN

COLLAPSIBLE ENAMELLED TUBES!!!

"Pharmaceutically excellent."—C. & D.

TRIPLE & QUADRUPLE ENGLISH & FRENCH

PERFUMES!!

"Strong, well put up, worthy of attention."—C. & D.

TOILET ARTICLES AND SUNDRIES (Highest Class).

ALL TO BE EXHIBITED

Stands 16 and 17, CHEMISTS' EXHIBITION,

Where we shall be glad to see our numerous friends.

BOWERS BROTHERS,

The Chemists' Effective Printers and Advertisement Designers,

Invite Correspondence.

NOVEL DESIGNS, GOOD WORK, LOW PRICES.

10,000 Handbills 17/6 9 × 5½
10,000 „ 11/- 7½ × 5

ALL OTHERS EQUALLY LOW

FULL VALUE IN ALL LINES.

Send for Estimates before ordering elsewhere.

SHADEINE.

For Colouring the Hair. Sold in 6 tints, one liquid.

6d. Sample size .. .. 4/- per doz.
3/6 Large „ .. .. 28/- „
10/6 Extra „ .. .. 84/- „

SAMPLES Supplied to the Trade on pretty hanging Showcards at 4/- per doz.

This Popular Article is Largely Advertised, and kept at all Wholesale Houses.

Agents Wanted.

[COPYRIGHT]

ALEXANDRE, 30 WESTBOURNE GROVE, LONDON.

BAGER, 356 CITY ROAD, E.C., LONDON

Sole Agent for Kahnemann & Krause, Vienna.

CACHETS "KAHNEMANN"

LONG APPARATUS "KAHNEMANN"

TO PRESS CACHETS.

Plain White Cachets (all sizes) .. .. .. at 2 3 per 1,000
„ Coloured „ „ .. .. .. at 2/6 per 1,000
Cachets "Kahnemann" are high in quality, low in price, pure, harmless, and always remain elastic.
Closing Apparatus "Kahnemann" at 4 6, &c.

Mr. Bager will send an Apparatus for inspection if desired.

BRECKNELL'S SKIN SOAP.

PRIZE MEDAL.

Recommended by Eminent Medical Men.

Unscented, yet Sweet as a Rose.

Although low in price, it ranks with high-class soaps, and is altogether the best extant for producing a Clear and Healthy Skin.

The longer it is kept the more it improves and increases in value.

LIBERAL TERMS TO THE TRADE.

BRECKNELL, TURNER & SONS, LIMITED

To Her Majesty, &c., &c.

31 HAYMARKET. LONDON.

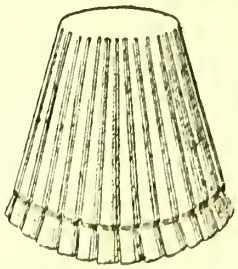
ESTABLISHED 1862.

Every CHEMIST, DRUGGIST, and MANUFACTURER should use

DAILLEY & WILKINSON'S PLEATED PAPER BOTTLE-CAPS

Great Reduction in Prices.

Nos. 0, 1, 2, 3, 10, 20, 30, 3B, for Phials... ... at 5d. per gross.
" 4, 4B, 40 (3 to 6 oz.) ... " 7d. "
" 5, 5B, 50, 5½ (3 to 10 oz.) " 8d. "
" 6, 6B, 60 (Pints) ... " 10d. "

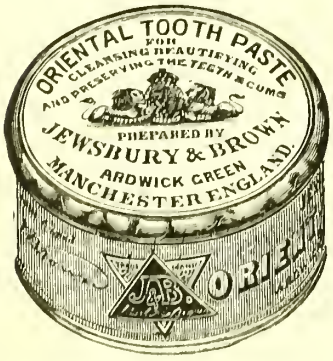


Nº 4
(Machine-made).

Quality and Colours Guaranteed

Samples can be had on applicatio through Wholesale Houses, or direct

8 Great Sutton Street, E.C



JEWSBURY & BROWN'S
Oriental Tooth Paste

Established over 70 years. Warranted to retain its properties and k good in any climate. The original and only genuine is manufactured solely

JEWSBURY & BROWN,
ARDWICK GREEN, MANCHESTER.

Particular attention should be paid to the Trade Mark, printed in red and green facsimile of which is annexed, as numerous imitations are offered.

MAY BE OBTAINED FROM THE WHOLESALE HOUSES.

Bills and Showcards forwarded on receipt of Address Cards and directions for enclosure.

SALVO PETROLIA

A SUPERIOR VASELINE.

May be procured through all Chemists and Druggists, and i Manufactured solely by the Proprietors,

THE DEE OIL COMPANY,
LIMITED,
Works: SALTNEY, CHESTER.

SALVO PETROLIA

Sanctioned by the Board of Trade Marine Department, and included in their instructions issued May, 1894, to superintendents of Mercantile Marine Offices.

Manufactured in five distinct qualities—WHITE, LEMON, YELLOW, GOLDEN, and RED (Veterinary).

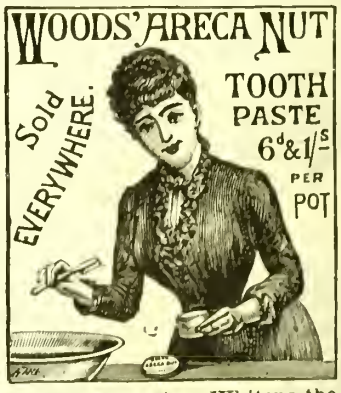
Packed in tins 1, 2, 4, 5, 7, 10, 14, and 28 lbs., 56 and 112 lb. Drums, and 3 cwt. Barrels.

OLEUM DEELINÆ
(REGISTERED).

GENERALLY ADOPTED BY THE MEDICAL PROFESSION FOR

Ophthalmia, Scurvy, Ringworm, Eczema, and all Skin Diseases.

Packed in Cases—One dozen 1s. Bottles; One dozen 2s. Bottles. Pint Bottles 4s. 6d. each, for Hospitals and Dispensing Chemists Testimonials may be had upon application.



Largest Sale in the Wor Hundreds of Testimonials. Have no Substitu

Also in Collapsib Tubes, 1s. each.

WOODS, PLYMOUTH.

Removes Tartar, Whitens the Teeth, Sweetens th Breath, and Checks Decay.

CARMICHAEL'S GENUINE AMERICAN MANICURE PREPARATIONS

A FULL 6d. LINE of the original American Manicure prepara at 43/- per gross.

VIOLET AMULETS at 48/- per gross.

"LUXURIA" Bath Tablets, 14/- per dozen boxes (of 12 each). So and perfumes the water, exhilarates the circulation, and renders the refreshing.

CACHOU DE LUXE, 18/- gross of 3d. packets. Perfumes the b does not upset digestion.

These last two appear on cardboard, as secu in black and white sket Summer Issue, forming a superb and attractive showcard in 16 col Given away with a purchase of a dozen boxes of Bath Tablets or ½ Cachou de Luxe.

FROM ALL WHOLESALE AND EXPORTING HOUS

UNRIVALLED 'OVALINE' UNRIVALLED

UNDER THE P.A.T.A.

THE ONLY SOAP CONTAINING YOLK of EGG.

Advertised Price—			Advertised Price—
4d per Tablet	A Profit of	33%	A Profit of	1s. per Box.
6d ,,				1s. 6d. ,,
8d ,,				2s. ,,

NOW READY! A fine Portrait of Her Majesty the Queen, printed in 15 colours, will be forwarded, carriage paid, on application to

PACOCK'S OVALINE SOAP CO., LTD., 145 QUEEN VICTORIA STREET, E.C

Telegraphic Address—"OVORUM LONDON."

GARANTEED TO CONTAIN ARSENIC.

Arsenical Soap.

Jameson's.

The Proprietor of the above preparation calls the attention of the Chemists of the United Kingdom to the decision given at Brentford, on Saturday, 12th December, 1896, in which it was held that the presence of Arsenic, even the minutest quantity, was sufficient to exempt dealers from prosecution under the Food and Drugs' Act.

In the manufacture of **Jameson's Arsenical Complexion Soap** the machinery is so perfect that not only is Arsenic to be found in each tablet, but severe testing has shown that the percentage is also uniform, and consequently each and every tablet may be sold with the utmost assurance; and in order to make the trade feel as confident as does the Proprietor, he takes this opportunity of informing them that he will in every instance defend them and indemnify them should action (which after the judgment quoted is not very likely) be taken against them; and, further, he is prepared to give them a warranty with each delivery of the Soap, which the trade has only to show to the authorities to immediately quash the indictment.

It is not for the Proprietor of **Jameson's Arsenical Complexion Soap** to instruct the trade as to the manner in which it shall conduct its business, but he takes this opportunity of declaring that he will, after this notice, defend any Chemist against prosecution under the Pharmacy Act, provided he has himself fulfilled the statutory obligations.

Please note that holders of **Jameson's Arsenical Complexion Soap** are requested to send a Post Card notifying the same, and a warranty, which, as before stated, is a certain protection against prosecution, will, with a supply of labels for complying with the Pharmacy Act, be forwarded per return.

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SPECIAL NEW LINE

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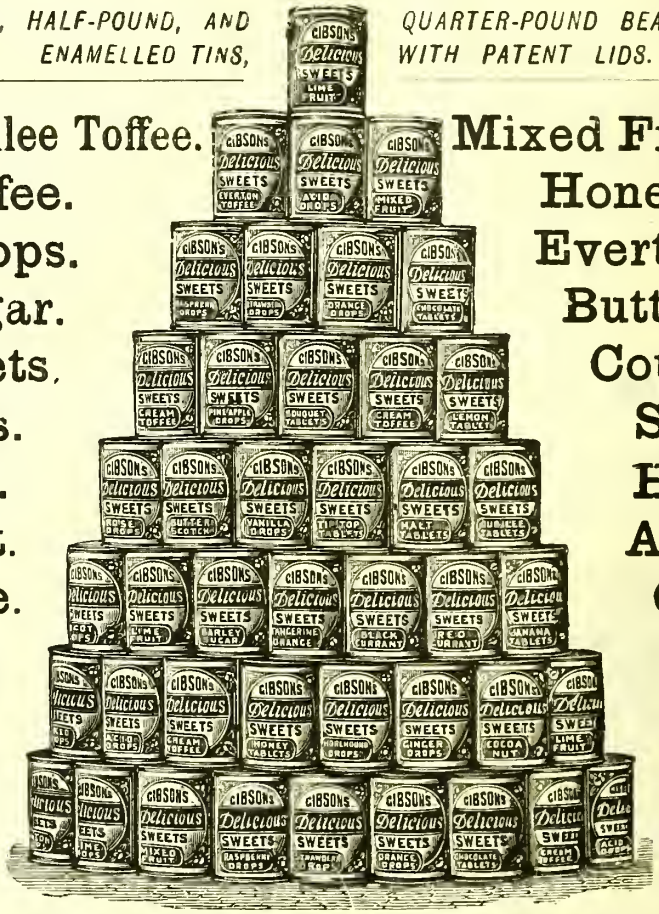
CELEBRATED SWEETS

ONE POUND, HALF-POUND, AND QUARTER-POUND BEAUTIFULLY ENAMELLED TINS, WITH PATENT LIDS.

Diamond Jubilee Toffee.
Cream Toffee.
Lemon Drops.
Barley Sugar.
Malt Tablets.
Pear Drops.
Mint Rock.
Lime Fruit.
Pine Apple.
Raspberry.
Damson.
Ginger.
Musk.
&c., &c.



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Honey Tablets
Everton Toffee
Butter Scotch
Cough Drops
Strawberry
Horehound
Acid Drop
Greengage
Chocolate
Orange
Cherry
Rose
&c., &c.

For many years these goods have been shipped abroad only in bottles; now the firm have decided to pack them in 1-lb., ½-lb., and ¼-lb. tins at 7/6, 4/6, and 2/9 per dozen respectively to the Retail trade, special terms being made with Wholesale buyers. Messrs. Gibson & Sons believe by offering their **WORLD-RENOWNED BOILED SUGARS** in portable, unbreakable packages, beautifully enamelled, they will not only enormously increase their own business, but supply a long-felt want to buyers abroad, and remove at once the only obstacle standing in the way of everybody being able to stock these goods without the slightest fear of sustaining any personal loss.

Indents may be filled and sent direct to the Works, MANCHESTER, to the Firm's LONDON WAREHOUSE—

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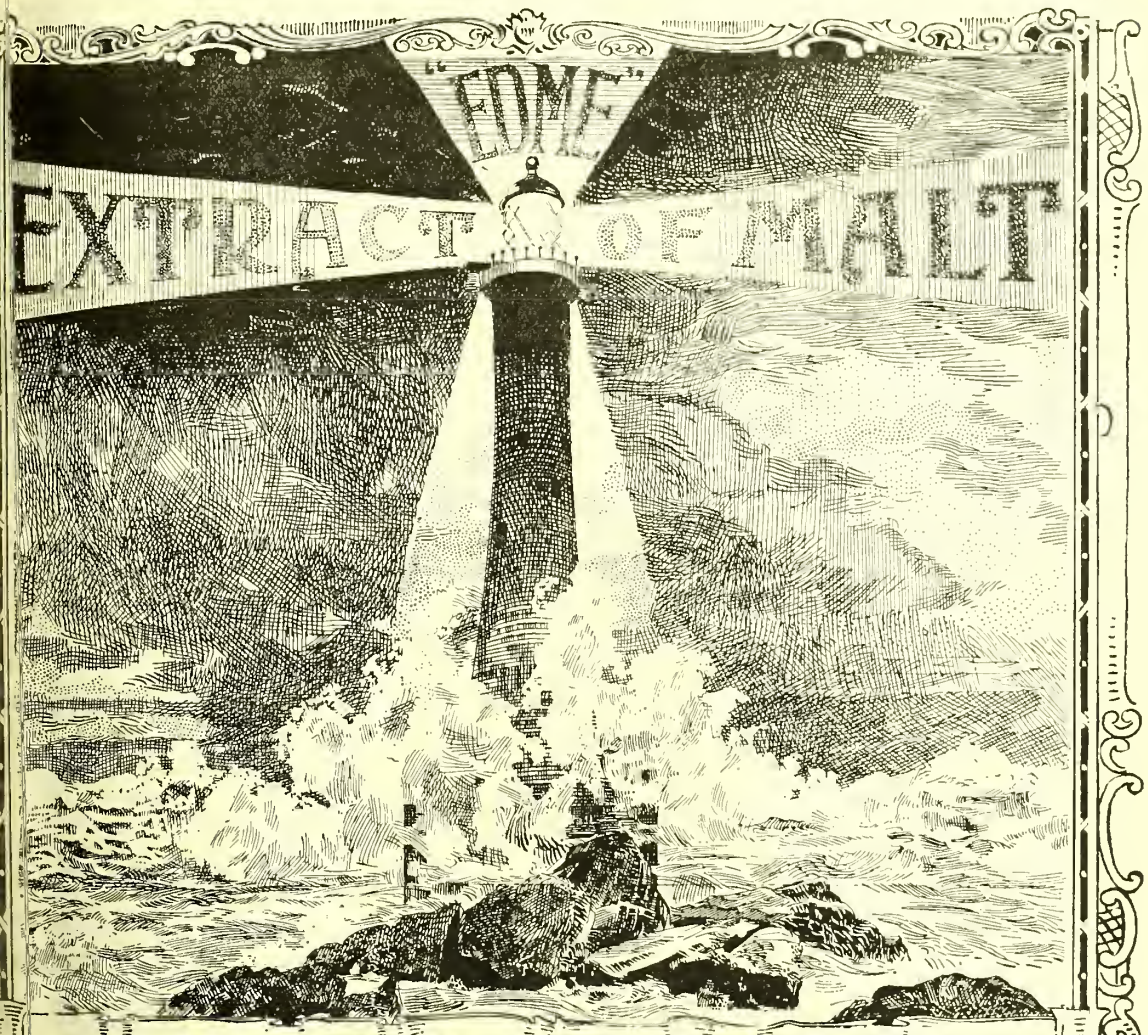
Or to any LONDON SHIPPERS.



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EDME MALT EXTRACT AND ALL COMBINATIONS.

THE LANCET says:—"This preparation proved to be a highly concentrated and active malt essence. It possesses a rich malty flavour, and acts POWERFULLY upon starch, CONVERTING IT RAPIDLY INTO MALTOSE. It is, therefore, well adapted for use as an aid to the digestion of starchy foods, whilst furnishing also important food constituents."

THE BRITISH MEDICAL JOURNAL says:—"It is of pale amber colour and good consistency. When tested with gelatinised starch it converted FIVE TIMES ITS OWN WEIGHT IN FIVE MINUTES at a temperature of 100° F. This result shows that the Extract has a VERY HIGH DIASTASIC POWER, and it therefore would be extremely efficacious as a medicinal agent where the use of an aid to the digestion of amylaceous food is indicated."

THE PHARMACEUTICAL JOURNAL says:—"This preparation is one which is not as well known to the retail chemist as some that could be mentioned, but examination of it shows that it POSSESSES CLAIMS WHICH ENTITLE IT TO EXTENDED PATRONAGE. The result of the test proves the Extract to be of UNUSUALLY HIGH DIASTASIC VALUE, and it is equally satisfactory in other respects."

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"An emollient, soothing application for irritable skins, useful for chapped lips and hands, abrasions and eruptions of many kinds. In a thin layer over a wound it is an effective protective. . . . Such a layer forms an impassable barrier to disease germs."—*BRITISH MEDICAL JOURNAL.*

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"Analysis shows the soap to contain no free caustic alkali, and to be free from excess of water and from adulterants."—*BRITISH MEDICAL JOURNAL.*

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Cable and Telegraphic Address:—"BURCOME, LONDON."

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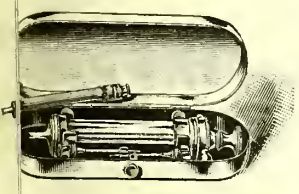
Notes on Some Recent Scientific Products.

THE B., W. & CO. SERUM SYRINGE.

is syringe is adapted for use with all serums. It is ely of British manufacture, excellently finished and g. All the parts are readily detachable, and may be red aseptic with the greatest ease. It is more compact than those hitherto in use. By an ingenious arrangement the rubber plunger can be instantly and accurately adjusted to the calibre of the syringe barrel. The B., W. & Co. n Syringe is supplied in a metal case with two platino- m needles, and is fitted with finger grips and with hable flexible nozzle to prevent breakage of needles in f any sudden movement of the patient. It is made in zes to hold 5 or 10 c.c., the price of each, fitted com- in case, being 25*s*.



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"azeline" Snow is an elegant preparation containing 50 nt. of "Hazeline." It is intended for application to in, by which it is rapidly absorbed without leaving a f greasiness. For this reason it is greatly appreciated by those who object to preparations containing fats, oils, or glycerine. In certain conditions of the skin the latter classes of preparations are useful, but it frequently happens that an emollient application free from grease is desired, and in that case nothing better than "Hazeline" Snow can be obtained. It quickly renders the skin soft and smooth, and removes redness or roughness. Abrasions, chaps, and similar disfigurements are rapidly healed by "Hazeline" Snow, and l irritation due to local conditions or atmospheric ces is quickly allayed. "Hazeline" Snow is an ble, cooling, and harmless cosmetic of wide application and great usefulness in skin treatment. It possesses the important advantage of not staining linen. Supplied in glass jars and in collapsable tubes at 12*s*. per dozen.

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Is a delicious sweetening agent, about 600 times sweeter than sugar, and has been aptly termed 'the sweetest thing on earth.' 'Saxin' is indicated in diabetes, gout, glycosuria, obesity, etc., because it undergoes no change in the system. A 1/4 gr. of 'Saxin' is equivalent to one lump of best loaf sugar. A small bottle containing 100 or 200 can be easily carried in the vest pocket.

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Its soft, silky texture, soothing influence, and other valuable qualities enhance its healing action. It has proved successful for drying weeping surfaces when all other powders have failed.

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A Plastic Emollient Cream for ITCHING, FACE SPOTS, ECZEMA.

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IRISH SUPPLEMENT TO THE CHEMIST AND DRUGGIST

No 8. SATURDAY, AUGUST 7, 1897.

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UNITE AND CONQUER.

E pend a copy of the circular which has been ad-
dssed to the non-subscribing licentiates and regis-
d dr gists of Ireland by the Society.

our Licentiates and Registered Druggists.

ENT MEN,—It is the desire of the Council that it should
e a re generous support from you in the discharge of
one s duties which rest on it, and in the efforts which
nake rom time to time to better your position.

n the rst place, you are aware of the power of money,
l alth gh the Society is by no means in a bankrupt con-
ion, i is necessary that a large balance should be in
erve, r we cannot tell at what time it may have to
end r rights, either in the Courts of Law or in Parlia-
nt. u have it in your power to give this pecuniary
istan by contributing your yearly subscription as
mber, r as associate druggist, but much better than
ney i a united front in support of the Council, the
mbers f which at much sacrifice of labour, time, and
leed outation, are watching and fighting for your
erest. The monthly reports of the Council meetings
not a all convey an idea of the business done by the
mmitt s of the Council, which are necessarily private.

In the cond place, it is the duty of any who desire to
iticise e doings of the Council, or to see the work better
ne, or better selection made of members to the Council,
place emselves in a position in which by their votes
ey can elp to effect the changes they desire.

To the gistered druggists especially the appeal is made.
ey ma appropriate seven seats; but through their neglect
one the have now only one representative, and though the
ajority the Council may not always be able to adopt
eir res utions, they may always reckon on due con-
deratio

Every ember and associate druggist receives THE
HEMIST AND DRUGGIST weekly, its IRISH SUPPEMENT
onthly, nd THE CHEMISTS' AND DRUGGISTS' DIARY
early, wch are in themselves worth more than the sub-
cription id, and the Calendar.

Our objects are entirely identical except as to the compounding of prescriptions. We ask them to be loyal to the licentiates. Licentiates cannot do anything which will be opposed to the rights of the registered druggist, and the Council cannot be blamed for protecting the interests of each section from encroachment.

Lastly, there are very important measures passing through Parliament at the present time, and from time to time will be, and the Council earnestly request every one whose name is on the Registers of the Society to call on or write to his representative in Parliament, asking him to support the amendments which may be proposed in any Bill in favour of our Acts. It must be borne in mind that the present Government have plainly intimated that any body who desires beneficial legislation on any subject must let their voice be heard, and must "educate the public," in order to have support. This is especially your duty. Take an intelligent grasp of your position into which the public have placed you, and convince the public that they must support you in that position; impress the Magistrates in particular, as you have opportunity, that it is as much a legal offence to transgress our Acts as it is any of the other Acts which are in force; that you have fulfilled the requirements of the public to be recognised in your position at much trouble, expense, and time; that you did so to attain a position to which they invited, and failing to give you their support, both moral and legal, they deny you the remuneration to which you are entitled.

If you will be good enough to send forward your name and subscription (1*l.* 1*s.*) to the Registrar, you will be nominated for election as a member or associate druggist at next meeting of Council, and you will not be required to pay a second subscription until the 1st of October, next year.

I am, Gentlemen, faithfully yours,

W. F. WELLS, Jun., President.

"There is truly nothing succeeds like agitation—barring perhaps, success. Even Lord Salisbury admits as much. 'A class that does not complain is the class that will go to the wall.' Those are the Premier's fatherly words to the Irish landlords. I give them as they were spoken, and as they are reported in the *Times*, and not as they have been muddled in our Irish papers."—Vide *Irish Figaro*, May 22, 1897.

The claim put forward by the Council of the Pharmaceutical Society of Ireland to the support of the trade is, we think, abundantly justified.

When an Irish Pharmacy Act was first mooted in the early seventies, the writers on this journal expressed a rather strong opinion in favour of union with the Pharmaceutical Society of Great Britain. But Irish pharmacists of all

shades of political opinion were at the time unanimously in favour of Home Rule so far as pharmacy was concerned. They were headed and aided by a gentleman of strong will and great influence—the late Sir Dominic Corrigan, M.D.

We willingly admit now that the course taken was unquestionably the right one. The conditions of pharmacy in Ireland differ considerably from those in this country, and we are very confident that no central board in London would have carried out the Act with anything like the energy which has characterised the proceedings of the Dublin Council. Moreover, it is not likely that the prejudice in favour of defendants which, it is alleged, is not unknown in some of the Irish courts, would have been any less manifest if the prosecutors had been of Saxon nationality. The Pharmaceutical Society of Ireland is not yet a quarter of a century old, and though it did not create pharmacy in Ireland, it had the rather difficult task of separating it from medical control, and of defending it against illegitimate encroachment. In the latter part of this duty it has not entirely succeeded, but still less has it completely failed. In the future it is likely that the importance and the value of the pharmaceutical qualification will be better recognised by the public, and this result would be much more quickly attained if the official body were more generally supported by its licentiates. Registered druggists, too, can, if they will, use the organisation for the defence of their interests, and for the gradual levelling-up of the whole body. The Irish Pharmacy Acts are in many respects better, from a pharmaceutical point of view, than are those of Great Britain. There is plenty of vitality in the drug-trade of Ireland, and if this can only be focussed by the appointed authority the greatest good for the greatest number will be extracted from the Acts, and the future of pharmacy in Ireland should be a bright one.

Pharmaceutical Society of Ireland.

JULY COUNCIL MEETING.

THE Council of the Pharmaceutical Society of Ireland met in Dublin on July 7, Mr. W. F. Wells, jun. (the President), in the chair. After passing a vote of congratulation to Sir George Duffey on the honour conferred upon him by the Queen, the Council passed to the unpleasant duty of receiving the resignation of Mr. M. R. Whitla, of Monaghan, who has had a seat upon the Council. These resignations are becoming rather frequent, this being the third one this year, and it is already known that the Vice-President of the Society (Mr. R. J. Downes) has tendered his resignation in consequence of circumstances which have not yet been made public.

The public transactions of the Council last month were purely formal. The Privy Council's approval of elementary theoretical chemistry being made a compulsory subject on and after January 1, 1898, was received with satisfaction, and Dr. Ninian Falkiner was re-elected professor of botany and materia medica at the Society's school.

SUCCESSFUL CANDIDATES—JULY EXAMINATIONS.

PRELIMINARY EXAMINATION.

Bolster, Thos., Ducleagh, Dromagh, co. Cork
Cole, John James, 102 Upper George's Street, Kingstown
Cooke, John Hill, 173 Strand Road, Merrion
Copithorne, John, Riverside, Skibbereen
Finegan, Thomas, 31 Clanbrassil Street, Dundalk
Hamilton, John Dickson, 133 Old Lodge Road, Belfast
Loton, Alfred Charles, 26 Clare Street, Dublin
Moran, Bertram Carson, The Mall, Westport
Smyth, William, Dromore House, Drumcroon, Coleraine
Strange, John Samuel, 2 Vicinage Park, Belfast
Nine candidates were rejected.

PHARMACEUTICAL ASSISTANTS' EXAMINATION.

Gray, William, 1 Hay Park Terrace, Ormeau Road, Belfast
Scott, John Simpson, 88 Haddington Road, Dublin

REGISTERED DRUGGIST EXAMINATION.

Crooks, John, 14 Duncairn Street, Belfast
Mitchell, Thos., 5 Great Victoria Street, Belfast
Niblock, William, c/o Mr. S. Niblock, Comber, co. Down
Sweeney, John Birchall, 9 Wellington Street, Ballymena
Thompson, Robt. Saml., Montrose Villa, Rosetta Park, Belfast
Webb, Geo. Atkinson, 82 Patrick Street, Cork
Three candidates were rejected.

PHARMACEUTICAL LICENCE EXAMINATION.

Bolger, Jas. Bartholomew, 30 Westmoreland Street, Dublin
Elmes, Edward Thos., 4 Sydney Terrace, Londonderry
Jardin, David Smith, Heathfield, Coleraine
Mitchell, Wm. Geo., 249 Lecky Road, Londonderry
Rowlett, Oliver Wm., Cregg, Sligo
Scott, Geo. Alfred, Northumberland Lodge, Portrush
Nine candidates were rejected.

News of the Month.

It is proposed to hold an industrial exhibition in Dublin next year.

* * * *

Mr. George Gilmore, M.P.S.I., Kilkenny, was married to Miss Evelyn B. L. Smyth, of the same town, at Dublin on June 29.

* * * *

There was a Fire in Messrs. Boilean & Boyd's warehouse, Golden Lane, Dublin, on July 8, which did but trifling damage.

* * * *

The Metric System must in future be known to those who enter for the Irish College of Surgeons' examinations.

* * * *

Messrs Hickie's Drug-store Contents in Parliament Street, Dublin, came under the hammer on July 9, owing a debt due to the Apothecaries' Hall. Mr. Thomas Hickie's public examination in bankruptcy was on July 30.

* * * *

The Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland have brought a very satisfactory session to a conclusion, and are having bright hopes for the next one.

* * * *

Ireland has an interest in the subject of British pharmaceutical reciprocity, which has been discussed in THE CHEMIST AND DRUGGIST during the past month because many of the colonies do not recognise the Irish licence although they accept the Minor certificate of the British Society. This is a matter for the Irish Council to look after.

* * * *

The Bankruptcy is announced in the *Dublin Gazette* of Henry Walker, druggist and oil-merchant, of 33 Aungier Street, Dublin. Mr. Walker, who traded as McCarthy & Co., was adjudged bankrupt on July 6.

* * * *

Royal Baking-powder.—Andrews & Co. were charged at Dublin last month with an infringement of the Patents, Designs, and Trade-marks Act, 1883, by selling baking-powder, made by the Royal Baking-powder Company, of New York, with the word "registered" on the label. In defending, it was maintained, that the word "Royal" was a trade-mark registered in the United Kingdom. Mr. Swifte, the Dublin Magistrate, gave his decision on July 1[illegible]. The informants were Messrs. Wright, Crossley & Co., of [illegible], the nominal complainant being one of their clerks, and the real defendants were the New York company. It was proved that the trade-mark was not registered in the United Kingdom, although it was registered in the United States. The Worship held that he had no alternative but to convict the defendants. He imposed a fine of 2*l.*, and 5*l.* costs.

* * * *

A Sequel to This Case came before Mr. Swifte [illegible] July [illegible] when an agent of the American Baking-powder Company, who had bought from H. Williams & Co. (Limited) a [illegible] of [illegible] pepper supplied by Wright, Crossley & Co., on [illegible] label which appeared a lion and the word "registered," ought [illegible] action against them. Counsel for the defence explained

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GUIDE TO THE PRELIMINARY EXAMINATION.

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the word "registered" applied to the name of the firm, h was registered as a trade-mark; but Mr. Swifte did hin that a sufficient explanation, and imposed a fine of ith costs. He refused to state a case.

Guardians and Drugs.

E Poor-law drug-contracts agitation has not died down by any means, as the items which we have to print this h amply show. We print these without comment.

* * * *

a meeting of the Guardians of the North Dublin Union e first week of the month, Mr. T. Laneham moved that resolution passed at the previous meeting of the Board, g the medicine-contract to Messrs. Thacker & Hoffe, escinded, and that the contract be given to Messrs. Leslie & Co., Bride Street, Dublin, on the grounds, he tha on going through both tenders he found that their er was only 40*l.* higher than Thacker & Hoffe's, and had a factory in the city and gave employment to a ber of people. Mr. McDonnell moved that the recomatio of the committee be adhered to. Messrs. ker Hoffe were also manufacturers and gave employ. On a division it was resolved, by eleven votes to to give the contract to Messrs. Leslie & Co. Mr. Crozier note that he would move that the opinion of the Government Board be asked as to whether the conshou l be varied, seeing that Messrs. Thacker & Hoffe's r was the lowest.

* * * *

lowing upon that, the Local Government Board wrote e North Dublin Guardians stating that the proceedings e Guardians were wholly irregular. The Board had re- d a letter from Messrs. Thacker & Hoffe, and it appeared the facts submitted that the tender of that firm was the t and was accepted by the Guardians. The assertion quency made that the firm were not manufacturers, ugh had nothing to do with the validity of the tender, it seemed, unfounded. The L.G.B. requested the liana to reconsider their action and remarked that the liana would probably render themselves legally respon- if they declined to act upon the Board's advice. A was read from Messrs. Thacker & Hoffe pointing out the assertion that they were not manufacturers was rect; they were one of the largest manufacturing firms blin, and Sir Henry Cochrane was the chairman of the any. Mr. Laneham denied that Thacker & Hoffe's r was the lower. He read a number of items in which e & Co's prices were lower than those of Thacker & Hoffe. e items, he said, were for drugs and medicines mostly . Ultimately the Guardians agreed, by eleven votes to o give the contract to Messrs. Leslie. A meeting of rate- s had also been held at which a resolution criticising ecisi of the Guardians and calling upon the Local nme Board to intervene was passed.

* * * *

ce the Guardians have resolved—"That the con- for medicines having been divided on last board-day en Messrs. Thacker & Hoffe and Leslie & Co., Dublin, he it is lowest in each case, and as fifty-two items are in prices in the respective tenders, that they be ed equally between the contractors and initialed by Chairman, and that the Clerk of the Union prepare onds accordingly." The Clerk said there was a saving ward of 70*l.* by dividing the contract.

* * * *

e Local Government Board have asked the Cork Guar- how is that the expenditure for drugs and medicines b-districts 1 to 4, during the past year, is 50*l.* in excess at of the sub-districts 5 to 9, although the number of ns relieved in the latter districts was 10,822 and in the er 4,6. Mr. McSweeney, the compounder for the er fiv dispensaries, and Mr. Lee, the compounder for ostly ir, have been requested to furnish their respec- xplan ions to the Dispensary Committee.

Dr. Clibborn, Local Government Board Inspector, has written to the Belfast Board of Guardians complaining that a large number of drugs, &c., have been added to the official list of medicines for which there is no authority. There is, he states, no objection to the extra drugs being ordered from ordinary contractors, but they cannot be included in the official list.

* * * *

The Listowel Board of Guardians have passed a resolution requiring the dispensary medical officers of the Union to attend in future the meetings of their respective dispensary committees, and explain to the Guardians the nature of the drugs and medicines which they require.

* * * *

Finally here comes a list of quotations for drugs by a Dublin contractor, who is now supplying the articles at these rates, and who undertakes that they shall be "of the best description and quality, prepared in strict accordance with the several formulæ of the last edition of the British Pharmacopœia, and delivered free at the workhouses and dispensaries of the Union."

Acid. boric. ...	1*d.* per lb.
Acid. hydrochlor., pure	1*d.* per pint
Acid. sulph. aromat., B.P. ...	3*d.* „
Ammon. carb. ...	1*d.* per lb.
Ammon. spt. aromat., B.P. ...	7*d.* per pint
Antim. tart. ...	1*d.* per lb.
Argent. nit. ...	4*d.* per oz.
Bismuth. cit. ...	1*d.* „
Caffein.	4*d.* „
Caffein. cit. ...	4*d.* „
Chloral. hyd. ...	1*d.* „
Cocain. hydrochlor.	3*d.* per dr.
Collodium flex.	1*d.* per pint
Copaiba ...	1*d.* „
Emp. belladonna, B.P.	1*d.* per lb.
Emp. canthar., B.P.	1*d.* „
Ext. belladonnæ	1*d.* per oz.
Ext. gentian. ...	1*d.* per lb.
Ext. hyoscy. ...	1*d.* „
Ext. pareiræ liq.	3*d.* per pint
Ext. sarsæ liq. ...	2*d.* „
Ext. tarax. liq. ...	2*d.* „
Ferri et quin. cit.	1*d.* per oz.
Glycerin. ...	2*d.* per pint
Leeches ...	1*d.* per doz.
Hydrarg. ...	1*d.* per lb.
Hyd. c. cretâ ...	1*d.* „
Hyd. subchlor. ...	1*d.* „
Iodum	4*d.* per oz.
Iodoform ...	1*d.* „
Lin. crotonis, B.P.	4*d.* per pint
Lin. iodi, B.P. ...	10*d.* „
Mag. calc. levis.	1*d.* per lb.
Mag. sulph. ...	1*d.* per cwt.
Morph. hydrochlor.	2*d.* per dr.
Ol. lini	6*d.* per gal.
Ol. olivæ ...	6*d.* „
Pil. aloes et asafœtid., B.P. ...	1*d.* per lb.
Pil. aloes et myrrh., B.P. ...	1*d.* „
Pil. col. co., B.P.	2*d.* „
Pil. col. et hyoscy., B.P.	2*d.* „
Pil. rhei co., B.P.	3*d.* „
Pil. saponis co. B.P	1*d.* „
Potass. acet. ...	1*d.* „
Potass. cyanid. ...	1*d.* „
Cream of tartar	3*d.* „
Potass. bromid.	9*d.* „
Pulv. cretæ aromat., B.P. ...	1*d.* „
Pulv. glycyrrh. co., B.P.	1*d.* „
Pulv. ipecac. ...	1*d.* „
Pulv. ipecac. co., B.P.	1*d.* per lb.
Pulv. kino co., B.P.	1*d.* „
Pulv. rhei co., B.P.	1*d.* „
Pulv. scammonii co., B.P. ...	1*d.* „
Salicin	2*d.* per oz.
Sarsæ rad. ...	1*d.* per lb.
Senegæ rad. ...	6*d.* „
Sodæ tart. ...	1*d.* „
Spt. æther. nit., B.P.	6*d.* per pint
Spt. juniper, B.P.	10*d.* „
Spt. rect. (sp. gr. 0·838) ...	3*s.* 6*d.* per gal.
Tr. arnicæ, B.P.	10*d.* per pint
Tr. asafœtid., B.P.	10*d.* „
Tr. camph. co., B.P.	9*d.* „
Tr. canthar., B.P.	10*d.* „
Tr. capsici, B.P.	10*d.* „
Tr. cascarillæ, B.P.	10*d.* „
Tr. catechu, B.P.	10*d.* „
Tr. guaiaci ammon., B.P. ...	10*d.* „
Tr. iodi, B.P.	1*s.* 3*d.* „
Tr. laricis, B.P.	10*d.* „
Tr. myrrh., B.P.	10*d.* „
Tr. opii, B.P. ...	10*d.* „
Tr. opii ammon., B.P.	10*d.* „
Tr. scillæ, B.P. ...	10*d.* „
Tr. valer. ammon., B.P.	10*d.* „
Ung. elemi, B.P.	4*d.* per lb.
Ung. hyd., B.P.	6*d.* „
Ung. hyd. ammon., B.P. ...	4*d.* „
Ung. hyd. ox. rub., B.P.	4*d.* „
Ung. iodi, B.P.	6*d.* „
Ung. iodoform., B.P.	6*d.* „
Vin. ipecac. ...	10*d.* per pint
Hypodermic-injection case ...	10*d.*
Pill-tile	4*d.* each
Glass measures (8-oz. and 2-oz. grad.)	4*d.* „
1 large and 1 small infusion-pot	1*d.* „
Pil. aloes et ferri, coated ...	1*d.* per gross
Pulv. rhei (East Indian) ...	1*d.* per lb.
Tr. kino, B.P. ...	10*d.* per pint

How is it done?

Market Movements.

JULY is always a slack month in the drug-trade, and this year it has been no exception to the rule. A smaller space than usual will suffice for chronicling the mere ups and downs of the leading drugs and chemicals. We subjoin the usual table form of market-movements :—

Firm or Dearer		Quiet or Lower	
Acid, citric	Dragon's-blood	Acid, carbolic	Ginger
Acid, tartaric	Menthol	Annatto-seed	Glycerine
Asafœtida	Oil, bergamot	Beeswax	Gum acacia
Bleaching-powder	Oil, castor	Borax	Honey
Buchu-leaves	Oil, cotton-seed	Camphor	Insect-flowers
Calumba-root	Oil, linseed	Canary-seed	Ipecacuanha
Cardamoms	Oil, rape	Cascara sagrada	Lime, acetate
Cassia lignea	Oil, star-anise	Chamomiles	Kola-nuts
Caustic soda	Pepper, white	Cocaine	Manna
Cinchona-bark	Pruss. potash	Cocoa-butter	Oil, cod-liver
Cloves, Zanzibar	Quinine	Copper, sulphate	Oil, geranium
Copperas, green	Sulphur	Cream of tartar	Oil, mirbane
	Vanillin	Cumarin	Opium
		Ergot of rye	Orris
		Gamboge	Pilocarpine
		Gentian-root	Santonin
			Senega-root
			Shellac

* * *

Asafœtida attracted a good deal of attention in Mincing Lane early in the month. It is a drug of comparatively small importance so far as the Western markets are concerned. The bulk of it is consumed in Persia and the East, where it is highly-prized as a condiment, and the best full-flavoured qualities never reach our market. There are a few specimens of "superfine" asafœtida in the Pharmaceutical Society's museum at Bloomsbury Square, whose like has never been seen—or smelt—in Mincing Lane. The asafœtida of Western commerce is mostly shipped to London from Bombay or the Persian Gulf ports. The trade is in the hands of three or four firms, and it is therefore comparatively easy to engineer a sudden rise in the article. In the beginning of this month almost all the available asafœtida in London had been cleared, partly for shipment to the States and partly for sale to the Continent, where the common grades are said to be used in the preparation of an insecticide for vines.

* * * *

The hot weather has greatly increased the consumption of citric and tartaric acids, and although there has been only a trifling advance in the price of both articles, the makers are exceedingly busy. They report that, especially in citric acid, they find it difficult to keep pace with the orders. Tartaric acid is now largely made abroad, and is therefore in less danger of short supply than citric. But the British-made acid is the only kind guaranteed to answer the B.P. requirements, and it therefore always realises a slight advance on the foreign drug. Essence of lemon, for which the demand is also very heavy at present, shows practically no change in price. The over-production of this important article has been so great of late years, and the practice of adulteration has assumed such serious proportions, that a Bill is now before the Italian Parliament designed to check the arts of the sophisticators. Full particulars of this measure were given in our Summer Number.

* * * * *

There are indications that we are approaching a speculative movement in quinine. This drug has long been extremely quiet, and purchases have only been made from hand to mouth, although it is generally admitted that the position of the market is a very sound one. The visible stocks of cinchona-bark are lessening every month, the shipments from Java—now the only important producing country—are smaller than they have been for several years, and he supply of second-hand quinine in London is no longer so great as to cause serious disquiet; yet quinine h moved upwards from the lowest price on record the past fortnight there has been a fair demand at a slight advance in price, and several pa changed hands, but we shall probably have to wai autumn before we see a decided change one way or

* * * *

Borax has been sold last month at the lowest ever known to have touched. The reason of t plentifulness and cheapness of raw material, and plication of refineries, not only in this country, Continent. There is many times more borax mat able than is required to fill even a much larg for the article than now exists, and while freig low there seems to be little prospect of an impro price. It is generally believed that the best-eq fineries still make a small profit even at the pres The future of borax seems to lie in the popularisa article among the general public, but to bring result the manufacturers must go in for advert large scale, and put up borax preparations for instead of merely selling the drug in bulk, as at p

Personal Paragraphs.

Mr. T. Plunkett, druggist, Enniskillen, has bee Commissioner of the town.

* * * *

Mr. R. J. Downes, Vice-President of the Phar Society of Ireland, has tendered his resignati office.

* * * *

The Corporation of Dublin have increased th Dr. J. E. Kenny, apothecary and City Coroner, fr 600*l.* per annum.

* * * *

Dr. George Foy contributed an interesting and letter on Dr. Crawford Long's discovery of ether to the *C. & D.* of July 17.

* * * *

Dr. Thomas Collins, a Governor of the A Hall of Ireland, and one of the first Council of t ceutical Society of Ireland, died at Sydenham aged 89.

* * * *

Dr. Foley, medical officer of the Kilrush U ported to the Guardians that he has a patient firmary, named Gallaher, whose foot is as large of an ordinary-sized man.

* * * *

Mr. J. F. Meyler, L.P.S.I., Dublin, has be first prize in Public Health and Forensic Med summer sessional examination of the Royal Surgeons in Ireland. The prize consists of a and 3*l.*

* * * *

Mr. Edward M. Hodgson, J.P., L.P.S.I., among the representatives deputed by the Rath missioners to present in person at St. James's Jubilee address voted by the ratepayers to h Mr. Hodgson was received by the Prince of Wale

The Analysis of Contract Drugs.—A respect to the analysis of drugs was made a week at the Mullingar Board of Guardians. Government Board inspector had recommended of drugs from the dispensary should be sent time to the county analyst for examination. done, but it was pointed out that if the an certify on any occasion that the samples sent not pure there would be no evidence that th supplied by the contractor. If the dispensary any ill-feeling against a contractor he could se he liked.

Pears' Soap

Soap Makers by Appointment to H.R.H. The Prince of Wales.

		Per dozen.
6d.	SIZE, unscented - - - - -	4s.
s	„ all shapes, Washing or Shaving	8s.
s 6d.	„ Ditto ditto	12s.
2s 6d.	„ (The Washing Tablets are perfumed with Otto of Roses)	20s.
RA SPARENT GL CERINE	2s. per Box of 3 Tablets	16s. per dozen Boxes.

WHOLESALE PRICES.

ISCOUNT of 20 per Cent.

all ORDERS of NOT LESS than £5

(GROSS TRADE-PRICE VALUE),

If accompanied by Remittance.

[Lesser Quantities 15 per Cent. Discount only].

IMPORTANT STATEMENT.

No Dealer in the Kingdom, "Wholesale or Retail," for any quantity whatever obtains more than the above 20 PER CENT. Discount.

(Signed), A & F. Pears, Ltd.

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Depots: LONDON—71-75 New Oxford Street—LONDON.
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nt for IRELAND: P. B. ROBINSON, Temple Chambers, Eustace St., DUBLIN.

WARREN'S

SWEET ESSENCE OF RENNET.

For the immediate production of

SWEET CURDS AND WHEY, JUNKETS, &c.

Sir Charles A. Cameron, in his lectures on Health, recommended curd as a good food in many cases where the digestive powers were weak, and stated it should be made by adding **Warren's Sweet Essence of Rennet** (as the most suitable, being free from salt) to the milk.

Testimony of Albert J. Walsh, Esq., Extra Lic. R.C.P., London, Councillor and Ex-President Royal College of Surgeons, Ireland.

41 Fitzwilliam Square, W.,
30th December, 1876.

Dear Sir,—I have for some time ordered your **Sweet Essence of Rennet**, and have found it remarkably beneficial in all cases where great care was necessary with diet. I can strongly recommend it.

Albert J. Walsh, Ex-Pres. R.C.S.I., &c.

CONYNGHAM'S

COCA WINE

Professor Tichborne's Analysis:

I have carefully examined the above preparation of Coca, the Coca Leaves, and also the wine from which it is prepared. Conyngham's Coca Wine is extremely well made. Nothing is used in its preparation but a good sound Wine and fine Coca Leaves. It possesses in a marked degree the Stimulant, and Restorative Properties, and would be an invaluable preparation against fatigue.

(Signed) Chas. R. C. Tichborne, F.C.S., L.R.C.S.I., &c., &c.

Largely Advertised. Quick Seller. No Risk. Minimum Selling Price allows GOOD PROFIT to Retailer.

Literature, with Seller's Name, Show Cards, and Terms on application.

RETAIL 2s. and 3s. 6d.

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HAYES, CONYNGHAM & ROBINSON, LTD

Manufacturing and Pharmaceutical Chemists, DUBLIN.

The pages of this Supplement are open for the insertion of Advertisements under the following headings:—

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Advertisements should be received at 42 Cannon Street, London, E.C., not later than the 29th of the month.

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36 BRIDE STREET, DUBLIN.

All Drugs ground on the premises by our own machinery, thus ensuring perfect freshness. We invite Chemists and Medical men to inspect our Laboratories and Millrooms.

FLUID EXTRACTS A SPECIALITY. ☞ *Write for Quotations.*

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Wholesale Druggists and Manufacturing Chemists

Drugs, Fine Chemicals and Pharmaceutical Preparations.

MANUFACTURERS OF ALL REQUISITES FOR MINERAL WATER MAKERS.

DRUGGISTS' SUNDRIES, PERFUMERY, Patent MEDICINES & PROPRIETARY ARTICLES

Write for Illustrated Price List.

Special Agents for PARKE, DAVIS & CO., LONDON.

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Telegrams—"Boileau Dublin." ESTABLISHED 1700. Telephone No. 226.

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Drug and Spice Grinders, Drysalters, Patent Medicine Dealers,

RUGISTS' SUNDRIESMEN, LICENSED MAKERS OF METHYLATED SPIRIT.

Manufacturers or Direct Importers of the following Goods, we are always in position to offer on very best terms—

RMACEUTICAL PREPARATIONS.
UND DRUGS & SPICES.
ASTOR OIL (all varieties).
COD-LIVER OIL (Norwegian and Newfoundland).
TRATE OF MAGNESIA (and Granular Effervescing Preparations).
OLIVE OIL.
CREAM OF TARTAR.
METHYLATED SPIRIT.
FINISH.

PETROLEUM OIL (American and Russian).
BENZOLINE (Petroleum Spirit).
ARCHANGEL TAR & PITCH.
ROSIN (all grades).
BURGUNDY PITCH.
VENICE TURPENTINE.
SULPHATE OF COPPER (Pure and Agricultural).
BLACK INK (on draught).
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CHARCOAL.

DYNAMITE & EXPLOSIVES. (We are Sole Agents for NOBEL'S Co.).
ACETIC ACID.
RECTIFIED VITRIOL.
PAINTS, COLOURS, VARNISHES.
LIQUID PAINTS IN TINS.
PUTTY. DRIERS.
CAUSTIC SODA.
SODA CRYSTALS.
SODA BICARB.
CHLORIDE OF LIME.

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HOYTE & SON,

The City of Dublin Drug Hall

AND

LATE & SHEET GLASS WAREHOUSE.

SPONGES—A Speciality.

HONEYCOMB SPONGES, UNBLEACHED.

A. Cases of 200 pieces, Toilet shapes, £3 10*s.*, averaging 4½*d.* each, to retail at 6*d.* to 8*d.* each.
B. Cases of 150 pieces, Toilet shapes, £3 15*s.*, averaging 6*d.* each, to retail at 9*d.* to 1*s.* each.
C. Cases of 100 pieces, Toilet shapes, £3 15*s.*, averaging 9*d.* each, to retail at 1*s.* to 1*s.* 3*d.* each.
D. Cases of 100 pieces, Toilet shapes, £5, averaging 1*s.* each, to retail at 1*s.* 6*d.* to 2*s.* each.
E. Cases of 80 pieces, assorted shapes, £6, averaging 1*s.* 6*d.* each, to retail at 1*s.* 9*d.* to 3*s.* 6*d.* each.

All Sponges sent carriage paid and on approval.

AGENTS FOR JOHAN THESEN & CO.'S (BERGEN, NORWAY)

FINEST NON-FREEZING COD LIVER OIL,

1, 25-gal. Casks, 5-gal. Tins, or Winchester Quarts. Prices and samples on application.

Agents for Ireland (part of Ulster excepted) for the MITCHAM JAPAN & VARNISH CO., MITCHAM, LONDON.

SPECIALITIES—IVORY WHITE JAPAN AND WHITE COPAL VARNISH.

KEON'S AMERICAN OATMEAL SOAP, specially recommended for Ladies,

At 4*s.* 3*d.* per doz. tablets; 48*s.* per gross.

BELFAST AGENTS—Messrs. J. & J. Haslett.

Lea Fellows' Syrup, Carter's Little Liver Pills, Kond's Euonymised Cocoa, Hoyte's Weed Killer, Aspinall's Enamels, Brown's Leaf Brand Hat Reviver, &c., &c.

EVANS, SONS & CO.

LIVERPOOL.

Offices—56 HANOVER STREET.

In the Press, and will be Issued early,

A NEW EDITION

OF OUR

DRUGGISTS' SUNDRIES

PRICE LIST

Enlarged and Thoroughly Revised.

OUR LISTS SUPPLIED TO REGISTERED CHEMISTS ONLY.

LONDON—
EVANS, LESCHER & WEBB.

CANADA & UNITED STATES—
EVANS AND SONS, LIMITED.

RAND OPENING

Y OF THE

v Daisy

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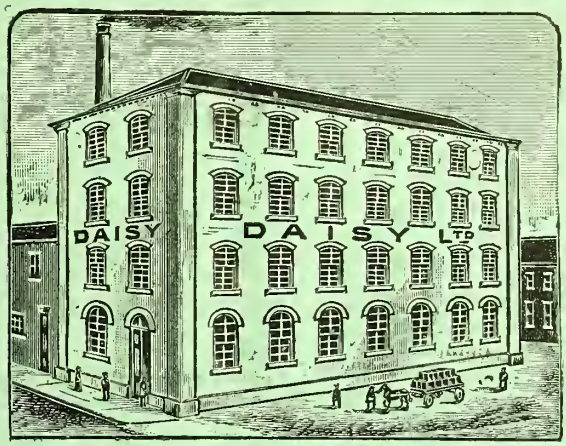
st 23rd, 1897



(The Company's Latest Acquisition.)

The Sender of the first opened names his own reward.

the hemist an article he can *Sell.* We guarantee him a good profit. We see no man takes that profit away. We rous advertise. Daisy sells like ripe cherries, and again and again have we been compelled to extend our borders. hav ecently added another factory to our already large premises, and think the occasion worthy a little ceremony pra cal nature. In the first case, we shall give our employés on this date a substantial treat. For our customers have ranged the following various considerable concessions, which will be allowed on this day only:—

Or opened with cash enclosed will be *doubled.* The letter-box will be opened in the presence of the Governing ector n Monday morning, August 23rd. The topmost letter opened containing order, with cash enclosed, will ive able the quantity ordered, carriage paid, and a settled note for the lot. A short while ago, a retail chemist sho ordered £40 worth of Daisy. Were he to again order this quantity, and be fortunate in having his order first ened on the opening day, he would receive on best terms £80 worth, retailing over the counter for £170, for remi nce of £40.

---

y do ordered (letter received by us not later than August 23), and cash enclosed with order, we will send 1,000 ly pr ted card coupons for free samples, with your own name in bold type printed on each. We will allow 2*s.* 6*d.* 1,000 Daisy powders for the distribution of the coupons from door to door.

ld y prefer it, we will send a neat window bill, about 14 by 8, one bill with every dozen, and allow a 13½*d.* box bill f gumming same inside the window-pane, and showing three weeks.

hose eferring our mutual advertising bills, we will print 5,000 demy 8vo (7 by 5) on ordinary paper, any wording, one si, with an order for three dozen 13½*d.* Daisy, or equivalent; cash to be enclosed with order, or will not obtain cessio

ld yo prefer the gift or loan of a *working figure,* instead of the foregoing, with orders of three dozen 13½*d.* or ivalen (opening day only), with cash enclosed—

We ll *give free,* a capital figure, "THE DAISY FOOTMAN." Respectfully raises his hat to every customer op ing the door. Lithographed on compressed millboard, lettered in gold.

We ll loan for three weeks' free use, carriage paid both ways: (*a*) Policeman, dressed in real clothes, staff in hand, no ing his head; (*b*) Pleasant-faced Masher, turning his body, and holding a box of "Daisy"; (*c*) A many-sid Conical Mirror, with an internal revolving bunch of artificial flowers, reflected many times on the different fac s (*a b c* run six hours with each winding); (*d*) Pneumatic "Daisy" Pugilists, very comic, worked by the sh boy from behind, at intervals during the evening.

, but no means least, with 6 dozen 13½*d.* or equivalent (opening day only, cash with order), we will lend for three ks, ca age paid both ways, the attractive well-got-up Model of our Smart Man Display. It opens its eyes, turns head, d points to a signboard. Very attractive, indeed, although model only sent, and no display material.

lditi to above concessions the first order, with cash, opened, gets doubled free.

re t post that we *receive* your order on August 23. If after this day it will NOT get the opening-day concessions.

rderin state which one concession you desire. Every order in addition stands a chance of being doubled free

Goods sent on receipt of order, and Model as early as possible.

CILLOR VORMALD, *Director.* | THOS. PEARSON, F.R.G.S., *Secretary.* | *Governing Director,* JNO. R. ELLIS.

AISY, Limited, THE TWIN DAISY FACTORIES, LEEDS.

The Chemist and Druggist.

10s. per annum post free,

Including 52 weekly numbers and the annual DIARY.

Subscriptions date from the first issue of any month.

No one in the drug-trade can afford to be without THE CHEMIST AND DRUGGIST.

The following is an imperfect indication of the contents of the July issues:—

Australasian News, containing interesting items of what is doing in the drug-trade of our colonies.

Books Reviewed.—"Year-book of Photography," "Vegetable Fats and Oils," "Handling of Dangerous Goods," "Medical Annual," &c.

Capsicin.—The process for manufacturing this drug described and illustrated.

Chemists' Advertising.—Notes on this subject embrace a number of practical ideas, showing that chemists are alive to its advantages. The subject is also discussed editorially.

Companies.—The following are the principal drug, &c., companies announced:—Bax & Co., Day's Metropolitan Drug Company, Galen Manufacturing Company, Magor (Limited) (includes eight Birmingham chemists' shops), National Drug Company. Among the dividends announced are Bovril, Fordham, Mellin's Food, Oakey, Parke's Drug-stores, &c.

Dispensing Competition.—This was well supported, and a selection of some dispensing difficulties and their solution were given. Our Dispensing Notes have been also instructive, and make good practice for the examinations.

Drug-crops.—Reports from English growers on the state of their crops.

Exhibition.—Full report upon an interesting medical exhibition held in London.

Formulæ:—Amenorrhœa-mixture, bath-tablets, bay rum, blackheads or acne remedy, brown-boot polishing-paste, Brown Windsor perfume, chewing-gum, corn-paste, cough-syrup, diarrhœa-mixture, dry shampoo, egg-colouring, ext. condurango liq., face-lotion, fly-papers (sticky and arsenical), food-preservatives, foot-rot liquid, gingerade and other summer drinks, hair-dye (brown), hair-restorer, horse-blistering ointment, insect-powder, liquid glue, lumbago-mixture, mixture for boils, paste-flour (patent), phenacetin-tablets, pills for pigeon-ailments, rat-paste, ringworm-lotion, sachet-powder, sarsaparilla-mixture, shampoo-powder, starch-glaze, warble-preventive, waterproofing cloth, wound-lotion.

Gentians.—Mr. J. R. Jackson, of Kew, describes the varieties of this plant.

Glasgow.—Special illustrated article on its growth, industries, and chief pharmacies, together with portraits of their proprietors, in view of the coming Pharmaceutical Conference in that city.

Greece.—Interview with an Irish chemist who fought in the Greek war.

Hamburg and its docks is the subject of a special illustrated article. A visit to some German factories, with description of beeswax-bleaching, &c.

India.—Special details of the earthquake there, showing how pharmacies have been affected. The Government Medical Stores at Calcutta are also described, with illustrations.

Ipecacuanha.—The commercial position of this drug traced since 1889. The fluctuations in price, number of packages received at the London public warehouses, and the annual deliveries shown by diagrams.

Legal Reports.—Yorkshire Relish trade-mark case, Pharmacy Act prosecutions in London, Reading, and Lyndhurst, acquittal of Madame Douglas, Hunyadi labels on Apenta water, Colman's blue (injunction obtained), and many interesting cases under the Sale of Food and Drugs Act (spt. æth. nit., tr. rhei, salad oil, &c.) and Medicine-stamp Act.

Liquor Bismuthi.—Notes by Mr. B. S. Proctor showing that the commercial liquor is unequal in quality.

Merck's Pharmacy.—Description of their New York retail pharmacy.

Novelties.—Among those noticed are the following new specialities:—"Alformant" disinfecting-lamp, camphocedra, citroids, Cox's tasteless pills, Delvoix's toilet-soaps, Kahnemann's cachets, "Llama" shaving-soap, Oppenheimer's new palatinoids, "Othniel" medicated wines, "Tanglefoot" fly-papers, Tetlow's powders, Vinolia goods, Warner's specialities.

P.A.T.A.—Council-meeting and report of executive committee. Grocers' Federation at Liverpool approve of Mr. Glynn's scheme.

Paris.—Illustrated article on old-time pharmacies there.

Pharmaceutical By-laws.—Privy Council decision on conditions to apply after a three-years' interval.

Pharmaceutical Reciprocity.—A series of articles showing colonial feeling, comparison of examinations, &c.

Pharmaceutical Society of Great Britain.—Report of three Council meetings; Benevolent Fund donations; more by-laws.

Pharmaceutical Society of Ireland.—Report of meetings; Irish Society's address to the Queen; knighthood of Sir George Duffey.

Pharmacopœia, British.—Account of the revision, with portraits of the revisers.

Pharmacy as it appeared at the Royal Agricultural Show at Manchester.

Pharmacy in Denmark, showing graphically the type of young Danish pharmacists.

Photographic Competition.—Reproductions of photographs of thirty-two pharmacies, and report on competition.

Professor Attfield.—Special illustrated article on the presentation of illuminated address, &c.

Riviera.—Notes on the state of pharmacy there.

Society of Chemical Industry.—Annual meeting, report and dinner at Manchester; portrait of the President, Dr. I.

South African Pharmacy.—A number of the old shops in Cape Colony and the Transvaal are described and illustrated.

Students' Corner.—Report on an analysis of borax, strontium carbonate, and calcium carbonate, with hints by R. J. Moss.

Wills of Deceased Chemists.—Details of artists' estates.

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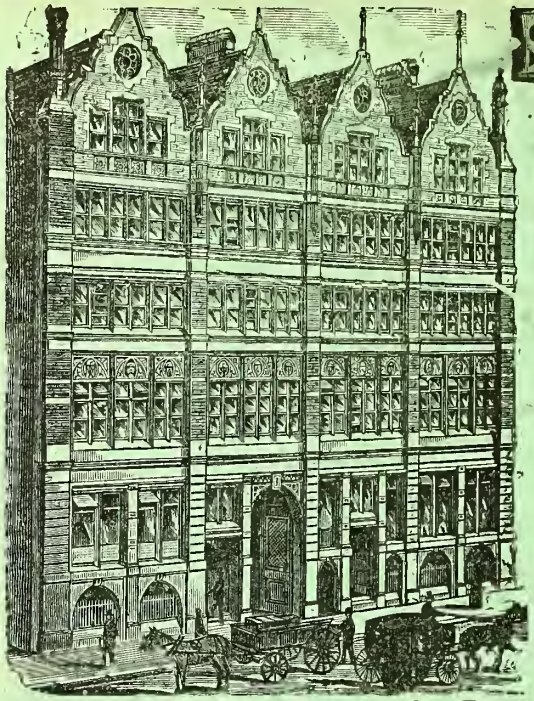

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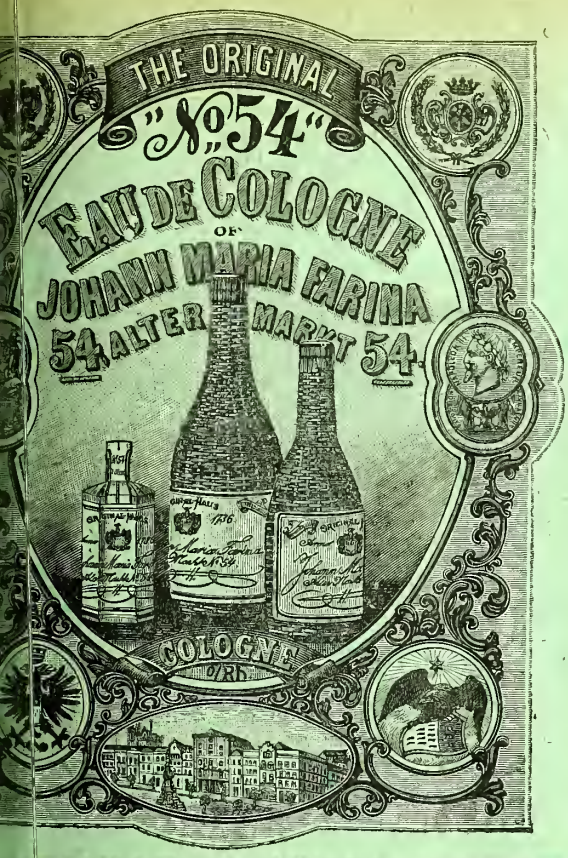

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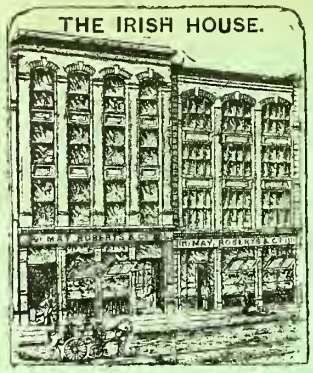

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THE CHEMIST AND DRUGGIST

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THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—

Pharmaceutical Society of Ireland.
Chemists' and Druggists' Society of Ireland.
Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland.
South African Pharmaceutical Association.
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Otago Pharmaceutical Association, N.Z.
Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia.

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BOTANICAL POSTCARD COMPETITION.

A NUMBER of medicinal plants are represented in the wreath on the back outside page of last week's Summer Number. Students of pharmacy are invited to name these in the order in which they appear, beginning at either end. Every subscriber, and every apprentice, assistant, or son or daughter of a subscriber is eligible to compete, provided he or she has not passed the Major examination of the Pharmaceutical Society. Postcards in reply must be sent in between this date and August 5, and one guinea will be awarded; but this may have to be distributed among successful competitors.

SUMMARY

HAIR-OIL is the latest reported poison (p. 223).

THE cost of getting goods to Johannesburg is shown in note on p. 240.

AN American order for a hundred million tablets has been placed (p. 225).

THE legality of the sale of cotton-seed oil for salad oil comes up in a case reported on p. 242.

THE other side is championed this week in the discussion on the sale of indecent articles (p. 248).

THE death of Mr. Henry Lyman, a well-known Canadian wholesale druggist, is recorded (p. 233).

LITTLEHAMPTON refuses to allow the advertisements of patent medicines on its bathing-machines (p. 222).

MRS. PROCTOR, a lady chemist at Nottingham, depressed through the falling-off of her trade, has committed suicide (p. 223).

THE High Court of the Province of Quebec has decided that the sale of all medicines is to be confined to pharmacists (p. 225).

MR. BEECHAM has to pay 50*l.* because his agent had an advertisement painted on Nelson's old flagship, the *Foudroyant* (p. 230).

DEALING with pharmaceutical reciprocity this week, we show the character of the examinations in the Australasian colonies (p. 239).

A SUFFOLK CHEMIST sold strychnine without entering the sale. He thought knowing the purchaser was sufficient. It cost him 32*s.* 6*d.* (p. 230).

DR. STOCKMAN has been appointed professor of materia medica in Glasgow University, in succession to the late Professor Charteris (p. 224).

THE revised by-laws proposed by the Council of the Pharmaceutical Society have been confirmed at a special meeting of the Society (pp. 227 and 236).

THE failure of a cod-liver oil speculation last year has resulted in a disagreement among the syndicate and a reference of the dispute to Mr. Justice Mathew (pp. 230 and 238).

PETROLEUM hair-wash is to be looked after in future by the County Council, who find that it comes within the scope of the Petroleum Act (p. 222). We give a formula for a safe substitute (p. 238).

THE Parliamentary Committee of the British Medical Association have elicited from the Privy Council the information that the Government are still considering a Bill to provide restrictions on the sale of carbolic acid (p. 232).

AN action between Idris (Limited) and a Margate dealer shows again the difficulty of the syphon-trade, and the necessity for manufacturers who lend syphons to make the borrower perfectly aware of his responsibility (p. 231).

CONSIDERING the season of the year the markets have been fairly active. There have been advances in a good many articles, menthol and star anise oil being the principal drugs thus affected. Quinine is very firm (p. 244)

THE Government have introduced their Bill to amend the Sale of Food and Drugs Act for criticism only. It does not embody the principal recommendations of the Select Committee on whose report it professes to be based (pp. 232 and 237).

THE BELFAST CORONER, having to inquire into the circumstances of a suicide, made the principal point of his inquest a severe criticism of a chemist who, it was alleged, had given the deceased some medicine six weeks before he cut his throat with a razor (p. 224).

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Inflammable Hair-wash.

The adjourned inquiry by the Westminster Coroner last week into the death of Mrs. Fanny Samuelson failed to elicit the cause of the explosion. It appeared from the evidence that the London County Council has notified that petroleum hair-wash, such as that which was the cause of the fatal accident, comes within the Petroleum Acts, and can only be kept in accordance with its provisions, requiring a licence from the Council. Mr. Spencer, the chief officer of the department of the Council in control of these subjects, intimated at the inquest that a strict watch will be kept on the matter now that the character of the wash is established. Whilst it was conceded that the nature of the mixture was so far known that the bottles were labelled, "Must not be used in rooms which have a fire or light," the evidence showed that its real nature could not have been appreciated by those who handled it. It was bought wholesale by the hairdressing firm of Emile et Cie. "in about 10 to 20 gallons at a time," and without the slightest knowledge of its constituents, as the partner who was involved in its use on the fatal occasion testified. A partner in the wholesale house of Masson, of Great Queen Street, from whom the wash was thus bought, was equally unacquainted with its real nature. "We have it from Paris," he said, "in tins, 20 or 30 litres at a time, at 2*s.* a litre wholesale"; but none of the tins were forthcoming to enlighten the jury as to the way in which this dangerous stuff is handled previous to its bottling and sale retail, we understand, at 5*s.* 6*d.* per nominal ½-pint bottle. As to its real nature, some suggestive facts were given by Mr. Dibdin, chemist to the County Council. He had examined two samples of this wash, he said, including one from Emile & Co., with the cautionary label. Both were composed of a light-petroleum spirit having a flashing-point at ordinary temperatures, and therefore coming under the Petroleum Act. The specific gravity of one of the samples was 0.6828 at 60° F., and the other 0·6923. Of sample A 68 per cent. distilled off under 180° F., specific gravity 0·6556, and of sample B 62 per cent. distilled off under 180° F., specific gravity 0·6731. Both samples, Mr. Dibdin said, consisted of a light-petroleum spirit of an extremely volatile and inflammable character, the vapour of which could be readily ignited by a spark under favourable conditions, and this had been demonstrated by its actual ignition by means of an electric spark. Mr. Spencer said the vapour of this spirit had been known to ignite at over 40 feet from the point from which it proceeded. Accidents had occurred from petroleum spirit having been fired by electricity generated in cleaning clothes, and some of the accidents in using petroleum hair-wash might have arisen from electricity generated in applying the wash to the hair. As the result of inquiries made by the Council's officers, it seemed that all the regular storers and users of the wash among London hairdressers are Frenchmen; but whilst most of them have discarded it following the demonstration of its terrible nature, several continue its use, one going so far as to tell the inquiring officer that it had been the means of establishing him in a new business, and another that one lady who had been cautioned that it was dangerous nevertheless resolved to run the risk on somebody being at hand with a blanket to extinguish any fire. Mrs. Samuelson's death was no doubt accelerated by her condition at the time, she being *enceinte* and bearing a premature child the day before her death, about a month after the explosion. Her medical man testified that the immediate cause of death was collapse following a miscarriage. The jury found an open verdict on the summing-up of the Coroner, who pointed out that no culpable negligence had been brought home to M. Kopf, the partner in Emile et Cie., who was himself using the wash and was burnt in the explosion. The Coroner, however, said that henceforth no excuse would avail against the use of the wash, not even if, as was suggested was the case in the present instance, the lady made a special request for its use following her being cautioned as to its dangerous character.

Caught a Cyclist.

A street hawker was carrying a bundle of sticky fly-papers through Fleet Street last week when a sudden gust of wind wrenched the papers from his hand, and drove them straight to a cyclist who was passing. They clung to the tyres of his machine and enveloped his person. The result was a nasty spill into the gutter, amid the gibes and jeers of a number of street arabs and corner men.

Attacks on Chemists' Daughters.

At the Holywell Police Court on July 30 a smartly-dressed young man, named Frank Sprigg, was charged with assaulting and robbing a young lady named Hughes, the daughter of a Rhuddlan chemist, on the road, near Holywell, on July 27 last. The prosecutrix said she was on a bicycle journey, when the prisoner stopped her, and attempted to assault her. Failing to do that, he robbed her of a gold bracelet and diamond ring, finishing up by striking her heavily in the face, and riding away on horseback. The accused, who set up an alibi, was remanded. He was brought up again on August 4, and committed to the Flintshire Assizes.

Levi Harry Hare, a butcher, carrying on business at Bridgebridge, near Lincoln, has been sent to prison by the Barrow Magistrates for two months with hard labour for assaulting Annie Richardson, the daughter of a Bolton chemist, in a railway train, between Sheffield and Penistone, by kissing her several times, and also attempting to indecently assault her. He was also fined 20*s.* and costs for interfering with the comfort of railway passengers.

The Arsenical Soap Prosecutions.

The accounts for the unsuccessful prosecutions of vendors of arsenical soaps have come before the Surrey County Council. In the case of Mr. Taplin the Borough Bench at Richmond held that, as the soap in question was not a drug, and their decision was confirmed by the Divisional Court, the respondent's costs had been taxed at 12*l.* 5*s.* 4*d.* The appeal in the case of Martin *v.* Carter, in which the same point was involved, was withdrawn by agreement, the County Council paying the respondent 9*l.* 9*s.* costs.

The Pharmacy Act in Jersey.

The Bill, or *Projet de Reglement*, introduced into the Jersey States over a year and a half ago by Dr. W. Ernet Aubin (Deputy of St. Helier), and to which we have already referred in detail, was down for discussion at a special sitting of the House held on Thursday last.

Is Castor Oil a Medicine?

The Bootle Guardians have further discussed this question. At their meeting on July 30 the Clerk reported that he had received communications from several other Boards, intimating that medical officers had to provide castor oil when prescribed. It was resolved that the medical officer be informed that they had to supply castor oil, when required, to pauper patients. A second resolution was passed entering on the minutes the fact that castor oil was a medicine that ought to be supplied by the medical officers when necessary.

A Plucky Chemist's Assistant.

A youth named Bailey, aged 17, of Oldcroft, Blakeney, an engine-cleaner, was drowned last week whilst bathing with others at the breakwater in the river Severn. Mr. Old, a chemist's assistant, made a plucky attempt to rescue the deceased, but without success. He recovered the body in 12 feet of water.

Patent-medicine Advertisements on Bathing-machines.

The Littlehampton District Council has decided that certain advertisements on bathing-machines should be re-

Mr. Pelham, owner of bathing-machines, who had written to on the subject under consideration, attended a meeting of the Council, and said he had received a letter from the Clerk taking exception to the advertisements of Holloway's pills on his bathing-machines. He did not wish to be discourteous to the Council, but, having entered into contract with the firm in question, he did not see how he could fall in with the Council's wishes. The Chairman informed Mr. Pelham that, unless he removed the obnoxious advertisements, his licence would be revoked.

A Fatal Dose of Hair-oil.

The four-months-old child of a married couple named Armstrong, living in Oswald Street, Accrington, came by its death on Sunday last in an extraordinary manner. The mother intended to administer soothing-syrup, but, getting the wrong bottle, she gave her baby a dose of hair-oil. Afterwards she found out her mistake, and took the child to the doctor, but he was unable to save its life.

Saving 100 per Cent. on Drugs.

The Tadcaster Board of Guardians claim to have effected a saving of 100 per cent. on the trade-charges in the purchase of drugs. How they could save 100 per cent. and yet have 1*l.* to pay is not explained.

Suicide of a Lady Chemist.

An inquest was held at Nottingham on July 31 on the body of Mary Proctor, aged 45, a widow, carrying on the business of a chemist at 291 St. Ann's Well Road. Emma Proctor, daughter of the deceased, said her mother had recently been very much depressed, the cause, in witness's opinion, being the falling-off in the business. She had been medically attended for the last six months, but gradually became worse, and for the last month she had been unable to attend to her duties. The deceased retired about half-past 10 Friday night in her usual health and slept alone, but at a quarter to 8 on the following morning the witness found that the deceased had left the house. Shortly afterwards she noticed that the workshop key was missing. She proceeded thence and found her mother lying upon her back in a pool of blood on the floor. There was a large glass bottle, labelled "Poison," on a table near to where she lay, with some fluid in it. Dr. John Smith, who had previously attended the deceased, found that the bottle contained hydrochloric acid, and from the condition of her tongue and lips it was evident she had drunk some of the acid. The jury returned a verdict of suicide whilst in a state of temporary insanity.

Fires.

Considerable damage was done to the stock of Mr. Benson Evans, chemist and grocer, by a fire which broke out in his cellar last week through a paraffin-lamp breaking and setting fire first to some sawdust.

On Saturday an extensive fire broke out at W. Butler & Son's tar and oil distillery at Crew's Hale, Bristol. The cause of the fire was the boiling over of a pot of varnish, and owing to the inflammable nature of the spirit used the fire rapidly assumed large dimensions. Two buildings were destroyed, a naphtha-still containing 5,000 gals. of naphtha, and other chemicals.

A destructive fire occurred on Tuesday night, about 7 P.M., at the establishment of Messrs. Jackson & Co., wholesale druggists, Plymouth, Mr. A. D. Breeze and Mr. Green being members of the firm. The stock, consisting of drugs, chemicals, and a large quantity of soaps, was well ablaze by the time the fire-brigade arrived on the scene, but owing to the excellent supply of water it was got under within half an hour. The premises were well stocked, and what escaped the fire has been considerably injured by water. The damage is estimated at about 1,000*l.*, partly insured, a considerable quantity of the goods being of a fancy description.

A National Physical Laboratory.

The Treasury have appointed a small Committee to consider and report upon the desirability of establishing a National Physical Laboratory for the testing and verification of instruments for physical investigation, for the construction and preservation of standards of measurement, and for the systematic determination of physical constants and numerical data useful for scientific and industrial purposes, and to report whether the work of such an institution, if established, could be associated with any testing or standardising work already performed, wholly or partly, at the public cost. The following will be the members of the Committee:—Lord Rayleigh (Chairman), Sir Courtenay Boyle, Sir Andrew Noble, Sir John Wolfe Barry, Mr. W. C. Roberts-Austen, Mr. Robert Chalmers (of the Treasury), Mr. A. W. Rucker, Mr. Alexander Siemens, and Mr. T. E. Thorpell.

Advertising Ideas.

Mr. Young, chemist, Fleet Street, Torquay, is showing in his window a watch and chain which were lost on Dartmoor five years ago by a friend of his when the two were tramping across the heath, and which were lately discovered by a gentleman visitor.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

The Belfast Coroner and the Chemist.

In our Irish News last week the particulars of a case were given in which the Belfast Coroner (Mr. E. S. Finnegan) held an inquiry concerning the suicide of a man who cut his throat with a razor. A bottle which had contained medicine, and which bore the label of Mr. James Thompson, chemist, Peters Hill, was produced. Mr. Thompson was called, but was unable to say that he supplied the medicine. The inquiry was adjourned in order that Mr. Thompson might produce his prescription-books. The inquest was resumed on Tuesday, when Mr. Harper, solicitor, appeared with and for Mr. Thompson. Mr. Harper objected to produce Mr. Thompson's prescription-book on the ground that as it contained a large number of prescriptions for people in Belfast it would be a breach of confidence to show such a book to the jury. The Coroner intimated that he had the power to compel the production of the book, but he was satisfied with Mr. Thompson's assurance that there was no prescription in the book for the deceased. The Coroner, however, at some length endeavoured to justify his proceeding in this matter. He said medical men had to travel along a stiff road towards their profession, and were put to great expense before they could legally practise. They would be placed at great disadvantage if others who had passed no examination were to do their work. Mr. Thompson's practice had been condemned in that court previously, and he asked the jury to repeat that condemnation. The jury, however, found that the man had cut his throat with a razor, and that there was not sufficient evidence to show that Mr. Thompson had prescribed for him.

Till Death us do Part.

A resolution has been presented to the grand jury at Limerick by Mr. E. W. O'Brien that the appointment of Sir Charles Cameron and Mr. Douglas Cameron as analysts for the county of Limerick be cancelled, and steps taken to elect to the vacancy a properly-qualified chemist residing in the locality. The difficulty in bringing Sir Charles from Dublin to the remote parts of the country at short notice is the chief reason for the change. The pay is 50*l.* a year. Sir Charles pleads his long service of over twenty-five years as a reason for making no change, and thinks it would be a very ungracious act for the grand jury to dismiss him. He states that he is anxious to keep on the appointment until he misbehaves himself or dies, neither of which he is intending to do.

Standing Authority to Supply.

At a meeting last week of the Cork Board of Guardians a letter was received from Messrs. Harrington & Son, chemists

and druggists, asking instructions as to what course they should take in future with regard to the supply of medicine and appliances, consequent on instructions received from the Local Government Board directing them to act on their own responsibility. Mr. Wright said that was exactly how Messrs. Harrington should act. If they gave medicines without the orders of the Guardians it was on their own responsibility. All business houses took a certain amount of responsibility in supplying goods. Messrs. Harrington should send an order in proper course. He thought it would be very inconvenient for a medical officer from a country district to come into Messrs. Harringtons' shop and be refused medicine, with probably the loss of life. He knew very well that the Board would not refuse the subsequent order when the goods were supplied in an emergency. The Clerk said that Messrs. Harrington had standing authority to supply medicine in cases of urgency. No action was taken in the matter.

A Bankrupt's Books.

At Dublin last week, in the Court of Bankruptcy, the case of Dr. Hickey came on for hearing. The bankrupt was a medical doctor and apothecary having a pharmaceutical establishment in Parliament Street, Dublin. The contents of his shop had been sold at a sheriff's sale, and several of the lots, including books belonging to the bankrupt, had been purchased by Mr. Allen, pharmacist, of Capel Street. The books were on the eve of the sale handed over to Mr. Allen, but the assignees claimed them as their property. Mr. Allen said he was quite willing to hand over the books to the assignees provided they would be restored to him when the collection of the debts was completed. Judge Boyd said the Sheriff had no right to sell the books of a trader, for if he could do so he would be able to destroy the efficiency of the assignees to the Court. He would make an order that the books should be given up, and would reserve to Mr. Allen the right to apply to have the books returned to him when the assignees had done with them.

More Contract Morality.

Arising out of the recent inquiry by the Local Government Board into charges of alleged corruption and bribery against certain Guardians of the Glenties Union, the L. G. B. has written to the Board a strong letter of condemnation, and has ordered the prosecution of Mr. Francis Brennan, one of the Guardians concerned. It appears that a woman described as "a decrepit, illiterate, old female" who was a domestic servant of one of the Guardians had been declared a contractor for the supply of goods to the Union.

Personal.

Mr. Charles Cooper, apothecary to the Bandon Union, has been superannuated with half-pay.

Sir Henry Cochrane, chemist, Dublin, has been appointed chairman of the Bray committee, co. Wicklow.

Mr. C. Tynan, L.P.S.I., late of Messrs. Doran's Medical Hall, Quinsborough Road, Bray, is opening a new pharmacy at Carlow.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Glasgow Parish Medicines.

At the monthly meeting of the Glasgow City Parish Council on Tuesday, August 3, the contract for the supply of medicines to the dispensary for the next three months was given to Messrs. Brown Brothers & Co. The contract price is 40*l.* 16*s* 11½*d.*, less 5 per cent. The medical committee reported a purchase from Mr. James Taylor, chemist and druggist, of 10 gals. of olive oil at 4*s.* per gallon.

Appointment to Glasgow University Materia-Medica Chair.

The chair of materia medica in Glasgow University, va through the death of Professor Charteris, has been fil the appointment of Ralph Stockman, M.D., F.R.C.P., F of Edinburgh. The appointment was in the gift o Crown. Professor Stockman is about 35 years of age makes the third young professor appointed within the two or three years to the University of Glasgow. graduated in the Edinburgh University in 1882, and wards studied in Vienna and Strasburg. Returnin Edinburgh he became assistant to Professor Fraser, an some years past he has been lecturer on materia medi in the extra-mural school of Edinburgh. In the departm of the experimental investigation of the action of dru Dr. Stockman has attained considerable distinction, espe as regards the chemical changes which certain drugs un in the body. In 1889 he contributed to the *British M Journal* a very valuable report on the coca alkaloids Dr. Stockman is a member of the consulting committee app by the Medical Council in connection with the new Pharmacopœia, and he has held the position of exam in materia medica in the Universities of Oxford, Glasgow, deen, and the Victoria University.

French News.

(From our Paris Correspondent.)

"The Organic Chemical Medicaments of the ple ment to the Codex" is a new work by MM. Lajo and Grandval, professors at the Reims School of Medic and Pharmacy. The book is divided into two parts. It tains several original researches by the authors on camp ated phenols, onabaine and its substitution for stroph hine, salicylates, &c. MM. Lajoux and Grandval also the methods they employ for the dosage of alkaloids in dica ments. M. Riche referred to the book at a recent eting of the Paris Academy of Medicine. Some interest also attached to it from the fact that it contains a prefac y the late Professor Schutzenberger.

Theft of Inoculated Rabbits.—Some little was caused in Paris recently by the news that twe three inoculated rabbits had been stolen from the labo ory of what is known as the "temporary hospital" of Aub lliers, where infectious maladies such as croup, tetanus, c. are treated. Fortunately there was no need for alarm, apart from the fact that inoculated meat of any de iption would scarcely be chosen as a "dainty dish," no crobes can withstand heat superior to 70° C. They wou there- fore be destroyed when the rabbits were cook The hospital in question consists merely of sheds, an is sur- rounded by a low wooden paling. No attempt l been made to protect the rabbit hutches, as hitherto th espe which infectious disease inspires in even the most rdened criminal has secured the safety of the hospital d out- buildings.

Artificial Coffee.—M. F. Coreil, director of t Toulon Municipal Laboratory, has addressed to the Paris ciety of Pharmacy an analytical report on a sample o roasted coffee-berries, seized by the police at a grocer's. T berries were entirely artificial. Chemical analysis sh ed the presence of ash, gum, dextrine, &c. Under the roscope grains of wheat, starch, and vegetable *débris* were ceable, also the hair of animals, the nature of which co not be decided. M. Coreil says that the "coffee" in qu ion was manufactured in moulds from various vegetable bstances which were roasted, but they contained none of th lements of true coffee. The grocer was prosecuted and ned. A curious part about the case was that the coun for the defence produced an invoice with the heading fabrique de Café Artificiel," also the name and address of e maker at Marseilles. The concoction was sold at a l e under a shilling a pound. This trade has been carri n in the south of France on a fairly large scale, but it i llegal, in spite of the fact that the word "artificial" is pl ly used, and that there is no attempt to deceive the buyer

Colonial and Foreign News.

Large Order.—The Paris Medicine Company, of St. Louis, has just placed what is probably the largest order of the kind ever entered by a firm. Their contract calls for one hundred million tablets of bromo-laxative quinine, to be delivered during the year 1897. Messrs. Parke, Davis & Co. received the order.

American Drawback on Alcoholic Preparatons.—The American Government have made it known that they will in future allow a drawback on certain exported spirituous preparations, such as essences of camphor and peppermint, equal to the amount of duty paid on the alcohol used in the preparations, less 1 per cent.

The Quebec Pharmacy Law.—Company Pharmacy Illegal.—In the appeal of S. Carsley Company (Limited) the High Court of the Province of Quebec has ruled that only duly registered licentiates of pharmacy can sell drugs which according to the Act includes everything, simple or compound, which is used medicinally. Companies and grocers are combining to get the law altered.

Alaskan Petroleum.—There is a rival to gold in Arctic America. A party of gold-prospectors in Alaska have run across what seemed to be a lake of oil, fed by innumerable springs and surrounded by mountains full of coal. Samples of the oil analysed at Seattle proved of excellent quality. A local company was formed and experts were sent out, who report that there are enough oil and coal in the district to supply the world. It is close to the ocean.

Proprietary Articles for Russia.—The Russian Medical Council announces that in addition to the medicinal preparations made abroad, of which the importation into Russia is allowed, the following will henceforth be admitted into the country on payment of the ordinary duty, viz:—Antinolin, antispasmin, Mellin's food, resorcin, soziodol-sodium, hyroidin (provided neither the dose, medicinal action, nor effection for which it is to be used are mentioned), and almah's eau de menthe (provided that the labels do not bear the word "Pectorale"). On the other hand, the importation under any circumstances has been prohibited of the following, viz.:—Serravallo's ferruginous quinine, Matthias's eau de élisse des Carnes, Schwartz's Indian pills, Dr. Rainer's cascara-sagrada pastilles, Midy's cocaine pastilles, and effescing piperazine, Scott's emulsion of cod-liver oil with hypophosphites, and thyroidin in compressed tablets.

Advancing "Patents" in Cape Colony.—In view of the recent action of the Cape Government in raising the duty on patent medicines, soaps, &c., from 12½ to 20 per cent., the Kimberley chemists have combined, for the first time on record, to advance the retail prices of these articles. They now demand 1*s.* 6*d.* for all 1*s.* 1½*d.* goods, previously sold at 1*s.* 3*d.* each; larger articles, such as Scrubb's ammonia, &c., have been raised from 1*s.* 6*d.* to 2*s.* each. A joint notice, signed by the leading chemists of Kimberley and Beaconsfield, has been issued announcing the advance in price. Taking into consideration the enormous amount of 'patent' consumed here," writes the correspondent who sends us this information, "this makes a material difference to the chemists' profits at the end of the day." We are pleased to hear it; but could there be a better illustration of the truth that it is the consumer who pays the duty, and pays it twice over, or more?

To Japan Shippers.—As an indication of the growth of 'direct" trade between Japan and foreign countries—*i.e.*, trade done with abroad by Japanese merchants themselves, without the intermediary of foreigners—it is stated that nearly 23 per cent. of the goods imported into Yokohama last year were bought in that manner by Japanese merchants or the Japanese Government. Of the goods exported, 17½ per cent. were sent in the same manner. The cost of living and the rate of wages in Yokohama have doubled since 1889. Among the Western drugs and medicines imported into Yokohama during the past two years are the following (the figures for 1895 being put in brackets):—Bismuth subnitrate, 3,584 lbs. (8,633 lbs.); drugs and pharmaceutical preparations, 76,0*l.* (73,290*l.*); dyes, 98,533*l.* (86,415*l.*); photographic instruments, 12,050*l.* (10,484*l.*); microscopes, 1,669 pieces (1895 number not stated); potash, 13,639*l.* (13,279*l.*); quinine, 152,950 oz. (177,876 oz.); saltpetre, 1,043 tons (1,585 tons); bicarbonate of soda, 2,016,767 lbs. (1895 quantity not stated). It will be noticed that, with the exception of quinine and saltpetre, all articles in this list show an increased import.

The German Government have decided that all German men-of-war sent out on foreign service shall carry a supply of a dye for imparting a dark colour to the uniforms of all the soldiers and sailors who may be called upon to perform active service abroad. The object of the colouring is to make the wearer as little noticeable as possible to the enemy which is a great advantage, especially in active operations in tropical jungles. The dye is said to be made by boiling chicory with sea-water, and adding pure chlorophyll to the liquid when it is cooled. It is said that, by simply washing, all traces of the dye can be removed from the uniforms.

Cyanide of Potassium in America.—During the debate in the American Senate on the Dingley Tariff Bill an interesting discussion arose on the question what the duty on cyanide of potassium should be. Senator Sewell, of New Jersey, wished to have the duty raised in the interest of the American makers, while Senator Stewart, of the mining State of Nevada, took the lead in advocating a reduction to 10c. per lb. Senator Stewart maintained that the extraction of gold from low-grade ores was made very difficult by the cost of cyanide. One mining company in Nevada paid $80,000 for cyanide last year to the Roessler & Hasslacher Company, of New York, who are the only manufacturers of any consequence in America. Singularly enough that company, who were the chief movers in trying to get the duty raised, were really a German house, a branch of the gold and silver works of Frankfort. The Frankfort house last year supplied cyanide to South African miners at 22c. per lb., while in the States their Philadelphia branch charged 35c. per lb. for the stuff. Senator Sewell, in reply, said that the duty on yellow prussiate of potash, from which cyanide was made, had been raised to 4c. per lb., or about 25 per cent. of the value. It took 2 lbs. of prussiate to make 1 lb. of cyanide, and it was therefore only fair to raise the tax on the last-named article. Half a pound of cyanide would extract a ton of low-grade ore, therefore the price of cyanide could not make any difference in this respect. By a majority of one (twenty-eight to twenty-seven) the Senate rejected Mr. Stewart's amendment.

Mineral Output in U.S.A.—The annual report for 1896 of Dr. David T. Day, chief of the Division of Mineral Resources in the United States, gives the following particulars concerning the output of minerals in that country:—"The bromine-industry is chiefly in the hands of a syndicate. In 1896 it showed a slight increase to 546,580 lbs., valued at the works at $144,501, compared with 517,421 lbs., worth $134,343, in 1895. The output for 1896 includes the bromine in potassium bromide made directly. The sulphur output rose from 1,800 tons in 1895 to 5,260 tons in 1896. The increase was due to the success attending the working of the Louisiana deposits by Frasch's process. The increased price, due to the Sicilian-sulphur combination, excited search for other deposits, with the result of attracting some attention to the deposits in Texas. The same fact is the cause that, in spite of low prices, search for a more extended supply of pyrites in the United States is quite active in consequence of the higher price of sulphur. The borax output went up to the normal level of 13,508,000 lbs., worth $675,400, all from California and Nevada. In infusorial earth there was a slight decrease in product to a value of $16,792, against $20,514 in 1895. The mineral-waters industry showed an increase in quantity from 21,463,543 gallons in 1895 to 21,668,345 gallons in 1896, but there was a decline in the total value from $4,254,237 in 1895 to $4,005,688 in 1896. We produced 60,000 flasks (4,590,000 lbs.) of quicksilver in 1882, but ten years later production had fallen to about one-third of this. Since then the product has gained slowly to 30,765 flasks in 1896. The industry, though still practically confined to California, is slowly extending into Oregon. No development has been made of the deposit recently found in Texas."

Pharmaceutical Society of Great Britain.

A COUNCIL meeting was held on Wednesday, August 4, at 17 Bloomsbury Square, W.C. Mr. Walter Hills (the President) occupied the chair, and the members present were Mr. G. T. W. Newsholme (Vice-President), Messrs. Allen, Atkins, Bottle, Bateson, Carteighe, Grose, Harrison, Hampson, Savory, Symes, Warren, and Young. The minutes of the last meeting having been read,

The PRESIDENT said that arising out of them he had received a letter from Mr. George Rimmington, returning his sincere thanks for the kind letter sent him in the name of the Pharmaceutical Council expressing regret at the death of his father.

HANBURY MEDAL.

The PRESIDENT announced that he had received a letter from Dr. de Vrij, the eminent quinologist, expressing great satisfaction and appreciation of the fact that the Hanbury medal had been awarded to him. He was sorry to say that, owing to Dr. de Vrij's infirmities and advancing age, he held out little hope of his being able to be present at the presentation of the medal in October. The letter Dr. de Vrij had written would be read on the occasion of the presentation.

METRIC SYSTEM.

The PRESIDENT called attention to the Bill in favour of the legality of the metric system. In accordance with the resolutions adopted at the July meeting he had drafted and forwarded to the House of Commons a petition in favour of the metric system, which probably the Council had seen. He had now to report that the Bill had passed the third reading of both Houses, and awaits Royal assent. The petition was presented to the House of Commons by the Right Hon. C. T. Ritchie.

CARBIDE OF CALCIUM.

Dr. SYMES wanted to know if there had been any more official communications from the Government with regard to carbide of calcium. The official intimation was that it was to be placed under the Petroleum Act, and he thought they should endeavour to get some exemption in favour of retailers selling small quantities—something like what existed with regard to benzine under the same Act. He had seen nothing in the *Pharmaceutical Journal* regarding this.

The PRESIDENT said the Government had not written to them on the subject. He did not recollect having been asked to take any steps in the matter at the time, and could not lay claim to any credit for having done anything.

Dr. SYMES said that chemists may keep carbide of calcium in quantities of not more than 5 lbs. in 1-lb. tins, that quantity not coming under the Petroleum Act. It affected insurance, &c., if it came under the Petroleum Act.

[The official instructions specially supplied by the Home Office are printed on page 138 of our Summer Issue.]

SALE OF FOOD AND DRUGS ACT.

Mr. BOTTLE said the Society was interested in this Bill, and would be glad to hear what the opinion of the Council was.

The PRESIDENT said that he had only just received a copy of the Bill referred to, which was introduced by Mr. Chaplin, and only printed that day. There was no intimation in the Bill with regard to the Board of Reference which had been suggested in other quarters, and it was possible that they would take exception to it on that ground. The Board of Reference, he was informed, was to include someone who would represent their interests.

Mr. JOHN HARRISON said there was no possible chance of the Bill becoming law this year, and thought it might be referred to the Law Committee, which it was agreed to do.

FINANCE.

The Finance Committee recommended the purchase, of 4,000*l.* 2¾ per cent. consols on behalf of the Benevolent Fund, as they were waiting for this money to buy ground-rents.

The Committee reported that the General Fund account left a balance in the Treasurer's hands of 849*l.* 18*s.* The payments now recommended amounted to 1,717*l.* 1*s.* 2*d.*, which was made up of the following items:—Examinations, 414*l.* 7*s.* 8*d.*; schools, 126*l.* 11*s.* 10*d.*; various accounts, 115*l.* 15*s.* 6*d.*; salaries, 154*l.* 3*s.* 4*d.*; current expenses, 300*l.*; *Journal*, 609*l.* 2*s.* 10*d.*

The balance to the credit of the Benevolent Fund should be 603*l.* 6*s.* 7*d.*; Donation account, 4,699*l.* 4*s.* 5*d.*; and Orphan Fund account, 108*l.* 16*s.* 6*d.* The balance to June 30 was 1,732*l.* 17*s.* 4*d.*, and July receipts amounted to 1,652*l.* 17*s.*

The PRESIDENT called attention to the fact that they had received the legacy from the executors of the late Mr. George Lyon for 2,000*l.*, for which they were deeply grateful. They had also received 2,084*l.* as the amount of the donations contributed on the occasion of the Festival dinner. These, together with some small rents and other small sums, amounted to 4,415*l.*, and it was suggested that 4,000*l.* consols at 2¾ per cent. be purchased. They already held some stock for the Benevolent Fund Donation account—some 2,05—and this would form a sufficient sum with which they could buy a suitable ground-rent or private investment, which recommended itself to their judgment. He moved, and Mr. ALLEN seconded, the adoption of the report and recommendations of the Finance Committee.

BENEVOLENCE.

The VICE-PRESIDENT moved the adoption of the Benevolent Fund Committee's report, which recommended the payment of grants of 7*l.*, 10*l.* and 5*l.* to widows of chemists; also the Committee recommended that a chemist, aged 65, out of employment, and who was reduced to a condition of semi-starvation, be granted 10*l.*, and that his name be placed on the provisionary list. The SECRETARY announced the death of Mr. W. S. Baker, of Clacton-on-Sea, aged 8 an annuitant.

THE HOUSE COMMITTEE.

On the motion of the PRESIDENT, the report of the Library, Museum, School, and House Committee, which gave the number of attendances during the past month, was adopted. The attendance totalled 365, 171 books had been used during the month, 84 in London, and 87 in the country; 19*s.* 7*d.* carriage was paid on the latter.

It was resolved to re-arrange a portion of the materia medica museum on the lines suggested to the committee by Mr. Holmes. Also to issue a revised school prospectus. Thanks were voted to Mr. Copney, of Newington, for his gift of a picture of Faraday in the Royal Institution.

The PRESIDENT said there was nothing to call special attention to in the report. There was one little matter which he wished to emphasise, and that was that they had received a picture from Mr. Copney, who was a former prizeman in the School of Pharmacy, and is one of the aumonants of the Benevolent Fund.

NO CANDIDATES FOR SCHOLARSHIPS.

The SECRETARY reported that he had received no application for the Redwood or Burroughs Scholarships, and the Research Committee recommended that the time for application be extended this year until September 30.

The PRESIDENT said it was a matter for regret that they had had no applications for these scholarships, and proposed that the time be extended as suggested. They would like to see the scholarships filled during the next twelve months.

Mr. CARTEIGHE seconded. He was not at all surprised that there were no applications for the scholarships, and also with regard to the Pereira Medal and Council competition. They had grown no Major students this session. He was glad to notice that for many years the chief honours in open competitions, as well as in the honours, had been obtained by students of the School of Pharmacy. He also agreed to the date, September 30, on this occasion especially, as the financial part of the payments could not commence until October 1. If there were no applications this year he thought the Council might decide to double the amount in each case next year. There would be sure to be plenty of applicants then.

The resolution was unanimously adopted.

HERBARIUM PRIZE.

The PRESIDENT: We have received a letter from Professor Green who has been good enough to undertake the remaining

of the herbaria competition. He writes to say he has red two herbaria, and he suggests that a certificate of r be awarded to Mr. George Todd, Oldham, for the rium which he sent in.

resolution was moved by Mr. HARRISON and seconded . SAVORY.

OB BELL MEMORIAL AND MANCHESTER PHARMACEUTICAL ASSOCIATION SCHOLARSHIP.

report stated that this examination was held in June; one candidates competed for the Jacob Bell scholar- gainst thirty last year. The winners of the scholar- were Herbert Payne, Maidstone, and John Evans, of yon. The committee reported that three candidates the Manchester Pharmaceutical Association scholar- nd recommended that Mr. R. Hillier Dawson be elected ensuing session.

PRESIDENT said he was glad to notice the good com- on this occasion, and it was satisfactory to find that out of the thirty-one competitors for the Jacob Bell ial had obtained the minimum number of marks that entitle them to the scholarships. The two gentlemen d proved to be at the head of the list would, no doubt, t to be worthy successors of the Bell scholars.

eport was unanimously adopted, Mr. ALLEN propos- Mr. GROSE seconding.

COUNCIL PRIZES EXAMINATION.

eport stated that eleven candidates competed for the medal. It was regretted that only one candidate ined the minimum number of 695 marks—Mr. W. A.

RESIDENT said it was unsatisfactory to note that the rs had suggested that neither the silver nor the edal should be awarded on this occasion, one reason at as the competition was always confined to the f Pharmacy the number of candidates was neces- all.

port was adopted.

EXAMINATIONS.

rt concerning the examinations for July was next This stated that in England and Wales 17 Major s presented themselves and 6 failed. Of the 256 didates who presented themselves, 86 passed and l. In Scotland 4 Major candidates presented them- of whom failed; 141 Minor candidates, 55 passed led. For the First examination there were 371 s, of whom 176 passed and 195 failed. Twenty-five s approved of by the examining bodies were re- lieu of the Society.

vill be no meeting of the Council in September. ll the public business.

SPECIAL GENERAL MEETING.

CONFIRMING THE REVISED BY-LAWS.

re about thirty persons present when the PRE- lled upon the Secretary to read the notice calling general meeting for the purpose of confirming ed by-laws as printed in THE CHEMIST AND of July 10, pages 45 and 46.

TEIGHE moved that the proposed by-laws be ad, collectively and individually.

INS seconded, and

SIDENT then moved the following resolution:—

> That e fourteen by-laws of the Society, Nos. 11 to 24 of ion 10, be abrogated, and that the new by-laws, o 23 of the same section, now submitted to this meet- be confirmed.

he said t t he should best consult their interests by saying ew words on the subject under notice. They would ot, remember that, at a special meeting of the on May 19, the proposed amended by-laws then ere confirmed, almost with unanimity, after a iscussion. It appeared at that meeting, as well others held in different parts of the country, as a consensus of opinion in regard to the iden the scope of the Preliminary examination. The discussion at the special meeting was restricted almost entirely to the second important alteration in the by-laws, dealing with the increased fee for the qualifying examination. All present would recollect that there was a very long discussion on that point, and he thought that even those who were opposed to them would agree that they had a fair hearing on that occasion. Their opponents were beaten at that meeting by a very large majority. The members of the Society at that special meeting came to the conclusion almost with unanimity—that the by-laws as they were then submitted for their consideration at that meeting were such as were reasonable and right. After that meeting, the next point was the sending of these amended by-laws to the Privy Council. Well, a suggestion was made by that department which does not affect the principles involved in these by-laws, but has merely reference to a matter of detail. It was noticed even by some of their friends who were in accord with the Council's views, that there might possibly be some little hardship for those who had already come into the business, and who would have to pay ten guineas for the qualifying examination instead of five guineas. The suggestion was made by the Privy Council that this increase of fee should not come into operation until three years after the approval by that Department of the by-laws. He submitted this alteration to the Council, and they were unanimously of opinion that this was a reasonable suggestion. The result was that they had to begin the consideration of the by-laws *de novo*. They had read with perfect unanimity the proposed new by-laws in the Council, and they had been confirmed in accordance with the charter at two subsequent meetings of the Council. The step now before them was that of confirmation by a meeting of the Society specially convened for that purpose. They had no reason to believe that there would be any considerable opposition; but he might say the amendments were quite inadmissible. Of course it was open for any gentleman present to discuss any matters connected with the by-laws, and to vote against the resolution. If that resolution were not carried, the by-laws must be submitted to the Council for reconsideration; but he trusted that the meeting would unanimously agree to the resolution.

Mr. A. C. WOOTTON: I understand you will not allow an amendment which would rule out one of the by-laws?

The PRESIDENT said he could not admit any amendment, but would hear what any gentleman had to say on the by-laws.

Mr. WOOTTON said he did not wish to vote against all the by-laws, but only one. If he might not do that he would not discuss them.

Mr. F. HARWOOD LESCHER said he was very happy to say that on behalf of himself and some of his friends he was deeply in favour of the proposed by-laws, and could speak favourably of them for many reasons.

The PRESIDENT read the resolution once again, with the result that it was carried *nem. con.*

Mr. CARTEIGHE moved a vote of thanks to the President for his labours, and to show their appreciation for his work in connection with "even such trivial things as by-laws."

Mr. BOTTLE seconded the resolution, and enlarged upon Mr. Carteighe's appreciative remarks.

The PRESIDENT returned thanks, and said so far as they were concerned the by-laws were passed, and they had every reason to believe now that they would come into operation. That was sufficient reward for him. He considered that they had bettered their calling by passing these by-laws. He thought it would be one of the greatest changes they had made for a great many years. In time to come they would see the great benefits the craft would derive from them.

THE CHEMISTRY OF IRON.—M. Adolphe Carnot, who has investigated the elements other than carbon entering into the composition of commercial iron, gave an account of the metallic elements of iron at the last meeting of the Paris Académie des Sciences, to supplement his previous communication on the non-metallic elements of that substance. It appears iron contains manganese, nickel, copper, and titanium, partly in the free state, partly in solution. In combination with the iron there occur chromium, tungsten, and molybdenum.

THE PRELIMINARY EXAMINATION.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of candidates who were successful at the First examination, held on July 13:—

Akhurst, Arthur A. J., Brixton
Allan, Edward Cross, Aberdeen
Aucliffe, Albert J., Guernsey
Anderson, D. W., S. Queensferry
Anderson, John, Dundee
Anderson John, Kilmalcolm
Anderson, Roderick D., Dundee
Armstrong, John H., Wigton
Austen, Edgar P., Southampton
Badcock, J. M., Barnard Castle
Badenoch, George H., Castle Douglas
Baker, Walter Henry, Bristol
Bamforth, C. B., Huddersfield
Barnett, Alfred, Aberdeen
Bates, Henry J., New Benwell
Baxter, A. C., Edinburgh
Beecroft, F. T., Scarborough
Beeham, Reginald S., Oundle
Beuson, J. H., Whitehaven
Blyth, Alec, Colchester
Board, William Robert, Jersey
Boyd, John, Comric
Boyle, Joseph, Glasgow
Braid, John Borlase, Truro
Brierley, Joseph H., Burton-on-Trent
Buchanan, William J., Crieff
Burry, David E. H., Picton
Burton, John R., Wakefield
Cartwright, A. H., Silverdale
Cattell, Alice M. D., Elmdon
Cawthorn, Lionel, Doncaster
Clark, Walter Sidney, Luton
Colleuette, W. de F., Guernsey
Combe, Robert G., Aberdeen
Corkill, W. S., Ramsey, I.M.
Cuthbert, H. H., Northampton
Dall, John, Edinburgh
Davidson, A. H., Stranraer
Dorman, Hugh, Stranraer
Douch, Walter, Southborough
Drewett, Percy C., Whitby
Duckworth, A., Heaton Moor
Dutton, Charles C., St. Helen's
Eaton, Edgar Smith, Swinton
Edwards, Evan E., Carmarthen
Elliot, Thomas, Edinburgh
Fairclough, W., Sunderland
Ferguson, Allan H., Preston
Flemons, Joseph C., Aylesbury
Forster, Edward M., Alnwick
Francis, Aaron, Llanidloes
Fraser, David Wilson, Ayr
Fraser, H. W. M., South Shields
Gardner, John W., Coatdyke
Garner, David L., Bridport
Gibson, George E., Lincoln
Gibson, G. W., Douglas, I.M.
Gibson, John, Dumbarton
Gilchrist, John, Hamilton
Gooch, William R., Dedham
Griffiths, James Alfred, Ludlow
Hague, Harry, Bury
Hagyard, R. J., Scarborough
Hall, Edgar, Burnley
Hamlin, Hourston, Dartford
Hampshire, Arthur, Ossett
Hannay, Thomas, London
Harrison, Arthur, Horncastle
Hattersley, Hugh, Bradford
Henderson, John R., Inverness
Hodges, C. E., Wotton-u.-Edge
Holden, James L., Lancaster
Hugall, John R., Sunderland
Hunter, Charles, Glasgow
Hussey, Herbert R., Weymouth
Ingham, Edgar F., Sunderland
Ingham, John B., Huddersfield
Inglis, Alexander, Edinburgh
Jackson, Marion, Gainsborough
Jensen, H. R., New Brighton
John, John J., Llanpumpsaint
Johnson, Alfred, Barnsley
Johnson, Alec. S., Stourbridge
Johnson, John Albert, Lincoln
Jones, Gwilym, Criccieth
Jones, Robert, Carnarvon
Juleff, John, jun., Clapham
Keen, Florence E., Cheltenham
Kenworthy, George, Barnsley
Kermode, Wm. Q., Peel, I.M.
Kerse, J. T., Newcastle-on-Tyne
Kinnis, Wm. D., Newcastle-on-Tyne
Kynaston, George H., Exeter
Laddiman, Ernest J., Norwich
Leith, Alfred B., Brechin
Lester, Aubrey Victor, Dover
Liddell, Harry Bowman, York
Lockhart, Jeanie L., Irvine
Lowe, Wilfrid, Whaley Bridge
Lowes, Herbert, Ferryhill
Lyall, David Watson, Montrose
McDiarmid, Geo., Edinburgh
McDonald, C. S. S., Earlston
McGregor, Gillies, Aberdeen
MacIver, Jeanie C., Dingwall
Mackenzie, Angus, Edinburgh
Mackinnou, Thomas, Govan
Male, Frank L., Cambridge
Matthews, J. G., Birmingham
Mellors, George, Retford
Milestone, Robert, Leeds
Miller, John, Blantyre
Moffat, George A., Bolton
Mole, Ernest M., Leatherhead
Muckersie, B. S., Kirkcaldy
Mundy, Arthur T., Ivy Bridge
Myers, John, Dalton-in-Furness
Neill, William M., Dalkeith
Nicholson, Edwin, Barrow Hill
Nish, George, Perth
Oddy, Herbert, Keighley
Opie, Arthur Thomas, Redruth
Oram, Herbert M., Leicester
Osborne, Henry, Portsoy
Ostle, Thomas W., Workington
Overton, Llewellyn, Edinburgh
Patterson, J. M., Newtown
Pethick, Henry T., Bodmin
Pickering, J. J., Langwathby
Price, Albert H., Glasgow
Purvis, J. M. T., Kensington
Pyatt, George H., Nottingham
Ramsay, William A., Lochee
Ransford, A. T., Folkestone
Reid, George David, Kirkwall
Reynolds, William, Bolton
Roberts, J. W., Wolverhampton
Robertson, J. S., Monymusk
Ross, William, Greenock
Russell, Thomas, Glasgow
Sales, Thomas Alfred, Goole
Salter, Leonard Eli, Trowbridge
Saunderson, George F., Retford
Shackleton, J. H., Bradford
Shepherd, F. W., Nottingham
Stainsby, Frederick, Darlington
Straton, George W., Lasswade
Tabberner, T. K., Birmingham
Tawell, T. E., Wakes Colne
Thomas, Heber, Moilgrove
Thompson, Henry M., Hull
Thomson, Agnes M. M., Ayr
Topper, Percy, Middlesborough
Tillott, John Booty, London
Toft, Wm. Vitruvius, Patricroft
Turnbull, A., Newcastle-on-Tyne
Turner, Dennis W., Holsworthy
Ullathorne, Wm. H., Bradford
Venters, John W., Kirkcaldy
Viret, Francis M., London
Wallace, Robt., Castle Douglas
Walmsley, Joseph W., Preston
Watson, Edward, Sunderland
Westlake, Ethel Maude, Windsor
Weston, Charles E., Chester
White, James Fredk., Leeds
Whyte, Edward, Forfar
Wigglesworth, Jas. W., Bolton
Williams, Arthur W., Taunton
Williams, Percy W., Rhyl
Wilson, Richard, Edinburgh
Wilson, William, Ossett
Witchell, Robt. W., Blaenau
Wood, J. G., Berwick-on-Tw
Woodward, Chas. E. A., Hal
Youngman, W., Walsham
Willows

New Companies and Company News.

West Norfolk Farmers' Manure and Chemical Company (Limited).—Capital 75,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on by a company of the same name at King's Lynn and elsewhere, and to manufacture, import, export, buy, sell, and deal in artificial manures, cattle-foods, and chemicals.

Vegetable Parchment and Chemical Company (Limited).—Capital 50,000*l.*, in 1*l.* shares. Objects to enter into a certain agreement, and to manufacture, sell, and deal in vegetable parchment, greaseproof and waterproof paper, and paper of all kinds, solkite or paint hardening crystal, blanc fixe, sulphate of iron, sulphate of magnesia, sulphate of alumina, &c.

Wednesfield Chemical Syndicate (Limited).—Capital 25,000*l.*, in 1*l.* shares. To carry on the business of chemists, druggists, oil and colour men, chemical-manufacturers, and makers of and dealers in proprietary articles of all kinds. The first subscribers (each with one share) are:—George H Gemmell, 14 Thirlestane Road, Edinburgh, analyst; Granville R. Gee, 4 Lindsay Place, Edinburgh, analyst; James B. Readmore, D.Sc., 20 Moray Place, Edinburgh; Thomas Parker, Thomas H. Parker, and Alfred E. Parker, electricians, of Tettenhall, Wolverhampton; John H. Weller, Tettenhall Road, Wolverhampton, assistant.

Sanitas Company (Limited). — The directors have declared the payment of an interim dividend at the rate of 10 per cent. per annum, payable on and after September 1 next.

Jeyes' Sanitary Compounds.—The directors have declared an interim dividend of 5 per cent. for the six months ended June 30 last, being at the rate of 10 per cent. per annum.

Foreign Chemists (Limited).—For the six months ending June 30, 1897, this company (better known as Wilcox & Co.) shows total sales 22,555*l.* 11*s.* 2*d.*, and net profit of 1,306*l.* 9*s.* 3*d.*, out of which a dividend at the rate of 5 per cent. per annum is paid.

A. J. White (Limited) ("Mother Seigels.").—At a board meeting of this company held on July 30 a resolution was passed to pay an interim dividend at the rate of 10 per cent. per annum on the ordinary shares of the company up to July 31, calculated as from the date of payment of instalments on the said shares. The dividend warrants will go out about August 10 to those shareholders whose names are on the register on July 31.

To the Tender-hearted.—The streets leading to the Royal Exchange are haunted by a number of former Mincinglanians, whom undue devotion to drink, indiscretion in gambling, and other weaknesses have brought among the "Unclassed." Several of these make a comfortable living by various processes of squeezing the old acquaintances on the way to 'Change, their arts ranging from whining hypocrisy to hectoring blackmailing, according to their knowledge of the character of the persons they address. One such sneak was recently given a window-cleaning job by a man who had been his acquaintance in better days, and to whom he had spun a yarn of starvation. Window cleaning did not appear to agree with the Unclassed. At first he only muttered silently to himself, but when he saw Mincinglane proceeding 'Changeward, and realised that the job he had on hand would probably yield him less than a freebooting excursion in the alleys about Cornhill, he cursed his workgiver loudly, and, giving a last vicious wipe at the window, exclaimed, "That's the way they take the bread out o' a poor man's mouth."

Bradford's Distinguished Scientist.

THE Bradford *Daily Telegraph* of July 31 provides its readers with a most astonishing two-column report of an interview with "Mr. Thomas Garratt Forshaw, M.P.S.," the "distinguished scientist" of that city. The reporter and the distinguished scientist unite their powers, and they are small, to place the distinguished scientist on the pedestal of fame which he evidently claims. This is how the fluent scribe introduces his subject:—

"The bright beams of the morning sun scintillated on the polished brass and spotless glass of the palatial pharmacy and lavish upon countless phials and all the rare and precious inutensils of the Pharmacopœia flashed back upon the crowd of onlooking spectators in dazzling prismatic glory. Though yet early the forenoon I had some slight difficulty in making my way through the throng of eager purchasers and pallid patients whose wants were being rapidly supplied by the courteous and attentive assistants. Passing along a spacious corridor, transformed into a veritable fairyland by abundance of graceful ferns, flowering exotics, and glittering goldfish, through partially opened windows I caught glimpses of busy men unpacking crates and boxes of portentous size—costly consignments of the products of Saturn and medical science in all parts of the globe, while the bottles stacked in the storerooms bewildered the senses by their very numbers.

"Ultimately the young man "was ushered" into a snug private ent

"Walls needed but few pictures, so well were they adorned with illuminated addresses, testimonials, the silent witnesses of honour, credit, and renown. Prominent among them my eye was caught by a framed letter from Buckingham Palace, wherein the Queen cordially thanks the firm for their congratulatory expressions on the occasion of her Jubilee. Mr. Forshaw, upon whom the mantle of his years sits full lightly, was engrossed as I entered upon a treatise dealing with "Nitrosobetanaphthol; its Nature and Action"; while around him were the insignia of his calling—profession, stills and retorts, apparatus and chemicals plain and rare, and some mighty hide-bound folios of Oriental lore. As he rose up from the picturesque confusion I noticed that though the wintry snows of honourable old age crowned the high forehead, the figure was still erect and sprightly, and under the frowning brows his eye, still glittering with the fire of youth, flashed like a falchion from its sheath."

The catechism which follows is so richly absurd that we would like to make room for it in its entirety. We must, however, content ourselves with quoting a few sample gems.

"'What part of this island claims the honour of your birth, Mr. Forshaw?" is how the interviewer opens, and this leads, of course, to the record of his hero's parentage, education, and business-training, in the course of which he explains that he became "acting apothecary" to the Macclesfield Infirmary.

"'What is the meaning of 'acting apothecary,' Mr. Forshaw?"

"'It means that I was entrusted with the whole of the minor operations in connection with the dispensary, with the visitation of outdoor patients, and the compounding and dispensing of medicines.'

"It is pretty clear by this time that the journalist is having in his victim, as the form of his questions indicate an intention to give the latter every opportunity for extending himself. After running him through his "acting apothecary" experiences he asks, "As a natural sequel to your career, Mr. Forshaw, you would qualify, I suppose?" Mr. Forshaw explains why this did not come to pass, and then tells how he got an appointment at the Bradford Infirmary.

"'And what was the full extent of your connection with that great eleemosynary and humanitarian institution of which we are proud, Mr. Forshaw?"

"'A quarter of a century and five months."

"'In what respect was the Infirmary most benefited by your connection with it?"

"'Undoubtedly by my compilation of the Bradford Infirmary and Dispensary Pharmacopœia, which ran through three editions, and was undertaken by special request in order to lighten the onerous duties of the medical men."

"'To what branch of chemical study did you particularly devote your attention during that time, Mr. Forshaw?"

"'More particularly to the different alkaloids used in dispensing and generally in microscopical investigation and chemical analysis.'"

Mr. Forshaw next relates his resumption of business and the qualifications of his partner, and then he is drawn out again to speak of his achievements.

"'Have you found time from the cares of business to contribute to the literature of your calling, Mr. Forshaw?"

"'Yes, I am responsible for articles in the whole of the trade press, and next month I am to read a paper on 'Pharmacy, Past and Present' before the members of the British Pharmaceutical Conference, which is held at Glasgow. Then I have written and published pamphlets on these topics: 'The Stomach; its Ailments, Diseases, and Treatment'; 'Pharmacy in the Olden Times'; and 'Coughs, and How to Cure Them.'"

"'Have you any leisure time, Mr. Forshaw?"

"'I find a little for my hobby, which is the Church of England, on whose history and progress I frequently lecture before literary societies and Church Defence Associations."

"'You are probably a member of various learned societies?"

"'Yes, I am proud to say that I am the only chemist in Bradford who is a member of the Pharmaceutical Society of Great Britain under the old *régime*, that dignity having been conferred on me on March 7, 1894; I am also a member of the British Pharmaceutical Conference, and—not to weary you with details—of several minor societies."

"'What have been the most remarkable of your discoveries in medical science, Mr. Forshaw?"

"'Forshaw's Infirmary Pharmacy Indigestion and Stomach Mixture,' and 'Forshaw's Infirmary Pharmacy Blood Purifier.'"

The conclusion of the interview is almost the best bit of the lot:—

"'What was the meaning of the Greek Royal Standard that was fluttering in the breeze over your establishment during Jubilee week, Mr. Forshaw?"

Again the veteran chemist smiled. "We had just received, direct from the hands of the King of Greece, a Royal Warrant of appointment to his most Puissant and Supreme Majesty the King as pharmacists to his royal person. That was on May 29, and this unusual favour, of which we are justly proud, was in recognition of distinguished services to the King of Greece during the late war."

Here I noticed that Mr. Forshaw was fingering a handsome gold watch, and realising that I had already monopolised too much of his valuable time, I elicited by a parting question that the splendid chronograph was a present from grateful patients, and making my bow left to his industrious solitude the man who is still in harness after sixty years of labour, and who for over thirty years has ministered to the wants and sufferings of Bradford's toiling millions.

This should be a sufficient introduction to the distinguished scientist if he presents himself before the British Pharmaceutical Conference next week to read his promised paper on "Pharmacy, Past and Present."

Wills of Deceased Chemists.

The will and codicil of Mr. James Phillips, chemist and druggist, retired, Gleave Street, Liverpool, who died on November 20, 1896, has been proved by Mrs. Phillips, the widow, and Mr. E. D. Phillips, the son. The personalty is sworn at 3,850*l.* 12*s.* 6*d.* gross and 3,826*l.* 15*s.* 4*d.* net.

The will of Mr. J. T. Jones, chemist and dentist, 226 Bute Road, Cardiff, who died on July 2, 1896, has been proved in London by Mrs. M. A. Jones, the widow, by whom the personalty of the testator is sworn at 5,722*l.* 19*s.* gross and 2,960*l.* 9*s.* 9*d.* net.

Letters of administration to the estate of the late Mr. George Jobling Kerr, chemist and druggist, Derby Road, Huyton, Lancashire, who died on November 13, 1896, intestate, have been granted to Dr. Thomas Henry Agnews, 305 Waterloo Road, Cheetham, the cousin german and next of kin of the deceased, whose personalty amounts to 583*l.* 14*s.* 3*d.* gross and 440*l.* 10*s.* 8*d.* net.

The late Mr. Thos. Phillips, 25 Queen Street, Portsea, chemist and druggist, having died on December 6, 1896, intestate, a bachelor, without father, mother, brother, or sister, letters of administration to his estate have been granted in London to Mr. Albert Amor, 4 Cowper Terrace, Acton Vale, as uncle and duly elected curator or guardian of Chas. Wilfred Phillips and Jane Constance Phillips, minors, nephew and niece and next-of-kin to the deceased, whose personalty is sworn at 2,063*l.* 11*s.* 3*d.* gross and 1,985*l.* 3*s.* 10*d.* net.

Legal Reports.

THE PHARMACY ACT.

Unregistered Sale of Strychnine.

At the Lexden and Winstree (Suffolk) Sessions. on July 31, Samuel Charles Walker, chemist, Wivenhoe, was summoned for selling strychnine to George Watson, without making the necessary entry in the poison-book, on June 11. Mr. Smith. for the defendant, pleaded guilty, but said that defendant did not quite realise the importance of the omission. The man to whom he sold this poison had previously bought strychnine, and his name had been entered in the book. Defendant seemed to think that knowing the man was sufficient. Defendant desired to express his regret, and asked the Bench to deal with him leniently. Superintendent Ackers said that the proceedings were taken in consequence of complaints as to dogs being poisoned in the district. The Bench inflicted a fine of 20*s*., and 12*s*. 6*d*. costs.

COD-LIVER OIL SPECULATIONS.

Bevan and others v. Kumpff & Eckenstein and others.

In the Queen's Bench Division of the High Court of Justice on Thursday, July 29, Mr. Justice Mathew and a special jury had before them this case, which arose out of a speculation in medicinal cod-liver oil. Prior to April, 1896, Messrs. Johnsen & Jörgensen, dealers in cod-liver oil in Norway and London, had been watching the market, and they came to the conclusion that stocks were low, and that it would be profitable to purchase oil. They got into communication with the three plaintiffs, who were business-men residing in the neighbourhood of London, and it was arranged to form a syndicate to purchase 2,000 barrels of cod-liver oil with the object, apparently, of controlling the market. The plaintiffs saw the three defendants, and according to their case the defendants joined them in the undertaking, a memorandum of agreement being drawn up in April, 1896, for the formation and working of a syndicate. The result of the speculation was that heavy losses were incurred, as, instead of cod-liver oil rising in price, it fell considerably. The plaintiffs accordingly brought their action to recover from the defendants their proportion of the loss. The defendants raised a question as to the date at which they came into the deal, and said that the plaintiffs had, though unintentionally, not disclosed to them the full state of the facts, and had not stated that they had previously bought large quantities of oil at a loss, and that prices had since fallen heavily. They therefore said they were not bound by the agreement, at all events for the whole period which it was alleged to cover.

Counsel for the plaintiffs were Mr. Bigham, Q.C., Mr. J. Walton, Q.C., and Mr. Scrutton; Sir Edward Clarke, Q.C., Mr. Atherley Jones, Q.C., and Mr. Macaskie appeared for the defendants.

The jury found that there had been no concealment of material facts, and that the defendants with the plaintiffs were liable in regard to the whole of the purchase made.

The case stood over for further consideration on points of law.

NELSON'S FLAGSHIP AN ADVERTISING MEDIUM.

At the Nisi Prius Court at Liverpool Assizes on July 31, before Mr. Justice Kennedy, an action was brought by Mr. Cobb to recover damages from Messrs. Beecham, of St. Helens, and their agent, a Mr. Challinor, for trespass. Plaintiff is the owner of Nelson's old battleship, the *Foudroyant*. His counsel said that since he had become possessed of the ship he had expended about 25,000*l*. upon it in restoring it to the precise condition in which it was in Lord Nelson's time. The ship was taken round the country, and visited by people in different ports. The object was to keep the ship as a Nelson's Museum, and it had not been a profitable investment to him from a pecuniary point of view. On June 16 last the vessel was taken to Blackpool, and anchored there. At night a storm arose, and the vessel dragged its anchor, went upon the shore, and becam wreck, those on board narrowly escaping with their li Early in the morning it was alleged that the defenda caused to be painted upon Mr. Cobb's property, in lett some 3 feet high and 2 feet wide, "England expects ev man to do his duty and to take Beecham's pills." Plain asked for exemplary damages for the trespass upon property, which he valued very highly, and also damages the use made of his property. He said he gave the defenda no permission to make use of the vessel for an advert ment. He also said that the defendants had photogra taken of the vessel and advertisement, and distributed th and that, therefore, the photographs were *primâ facie* dence of a ratification of what had been done by Beecham

On behalf of the defendants, Mr. Taylor said that th was no evidence against the defendant Beecham. There not the slightest evidence that there had been any tres on his part, nor was there any evidence that he had eit authorised the advertisement to be painted or photograp and copies of it distributed. Mr. Beecham only instruc his agent to endeavour to make a bargain, and gave him other authority whatever.

On behalf of Challinor, Mr. McCall said his client n read a communication of Mr. Beecham, and under a mis prehension painted the trespass referred to.

The jury found that Mr. Challinor had committe trespass, and assessed the damage at 40*s*. Against Beecham they gave a verdict of 50*l*.

Mr. McCall: Upon that I ask for judgment for Challi and your Lordship to certify for a special jury.

His Lordship: Yes.

Mr. Horridge: I ask for judgment against Mr. Beecha

His Lordship: Yes.

Mr. Taylor: I ask for stay of execution.

His Lordship granted the request on the usual terms.

THE MEDICINE-STAMP ACT.

The Actual Vendor Liable.

At Southwark Police Court on July 28, before Slade, John Michael Munroe, High Street, Borough, summoned by the Excise authorities, under the Medici stamp Act, 52 Geo. III., c. 150, s. 2, for selling pills purifying-medicine without Government stamps. Hawkins prosecuted. The defendant pleaded, first, that was only manager of the shop, and, secondly, that he been unable to obtain the stamps at the local post-off Mr. Hawkins replied that the actual vendor was liable, that there would not be more than a day's delay in gett the stamps from Somerset House, as the Post Office bound to do if requested. Mr. Slade imposed penal amounting to 6*l*.

LYON *v.* THE IMPERIAL EAU DE COLOGNE COMPANY (LIMITED).

In the Chancery Division on Saturday, before Mr. Just North, the case of Lyon *v.* The Imperial Eau de Colo Company (Limited) came on for hearing on a motion judgment in default of defence. His Lordship made usual judgment order.

BOVRIL LITIGATION.

On Wednesday, before Mr. Justice North, in the Chanc Division, Mr. Swinfen Eady, Q.C., mentioned the cases Bovril (Limited) *v.* Bouillon Fleet (Limited) and others, which he had motions to restrain the passing off of prepa tions of fluid beef as and for the goods of the plaint The motions were very heavy, and he had theref arranged, with his Lordship's sanction, that all the moti should stand till the trial of the action, the costs to reserved, with leave after the vacation to apply to exped His Lordship agreed to the arrangement.

COUNTY COURT CASES.

Fowls Damage a Chemist's Garden.

Mr. W. Henry Barlow, chemist and druggist, Conglet sued Mr. Preston, a solicitor, on July 28, for 11*s*. 1

dage done to his garden by defendant's fowls. It was disted that they were defendant's fowls which trespassed, and ultimately the 5s. paid into court by defendant was accepted by plaintiff, without costs.

KIRKWOOD AND THE CHEMIST: JUDGMENT FOR THE MONEY-LENDER.

At the Brighton County Court, before Judge Martineau, on July 30, John Kirkwood, money-lender, of the Provincial Bank, 69 Ship Street, sought to recover from George Sewell Sutton, chemist, the sum of 11*l.* 3*s.*, the balance of a 14*l.* promissory-note, with 3*s.* agreed default interest. Mr. Goodman, the plaintiff's manager, said that the defendant gave a promissory-note for 14*l.*, to be paid at the rate of 1*l.* a month. He paid regularly until the end of February, but then he missed March and April. He then gave a cheque for the amount due, but this was dishonoured as it was post-dated. Mr. Kirkwood allowed the matter to rest until July, when, as the defendant appeared to make no effort to pay, he sued for four instalments In reply to the Judge, the witness said he had not presented the cheque since it became payable, but he claimed that there was a default in June. Defendant: When before the House of Commons Committee, Mr. Kirkwood said he always gave notice before claiming a default. Eventually his Honour entered judgment for the plaintiff, for 6*l.* to be paid on August 12, and the balance 1*l.* a month.

RETURN OF SYPHONS.

At Margate County Court on July 29, before Sir W. L. Selfe, Idris & Co. (Limited), of Camden Town, London, sued Mr. Walter Green, wine-merchant, of Margate, for 12*l.*, made up as follows:—The return of 106 syphons, being the balance not returned by defendant to plaintiffs of 900 syphons delivered by plaintiffs to the defendant on and between March 2 and December 31, 1896, or their value at 2*s.* each—10*l.* 12*s.*—and the balance for damages for the wrongful detention of the same. Mr. A. H. Poyser appeared for the plaintiffs, and Mr. Wootton for the defendant.

Mr. Poyser, in opening the case, said an agreement was made to supply Mr. Green with aërated waters in syphons at 2*s.* 6*d.* all round, and as the cost-price of the syphons was 2*s.* each, it would be seen that the orders received from Mr. Green amounted to about 9*l.* The value of the syphons with which he was entrusted amounted to about 90*l.*, so it was ridiculous to suppose that the plaintiffs were going to supply 90*l.* worth for 9*l.*, and not make anyone responsible for the return of the syphons. The company's agent, Mr. Goodner, agreed with Mr. Green that the syphons should not be invoiced to him, but that Idris & Co. should lend them to him. Defendant disputed his liability on the ground that the syphons were delivered to him without responsibility in any way for their return, but they were to get them if they could and how they could. That, said plaintiffs' counsel, was a most absurd contention, and, if it was right, the company would have lost 1*l.* on the syphons and supplied all the mineral waters for nothing. The company had, he added, over a million syphons out. That would show his Honour the importance of this matter to them. Mr. Green had offered 6*d.* a dozen more if the responsibility were taken off him, but this the plaintiffs declined to accept.

Mr. Goodner, the Margate representative of the plaintiffs, proved these statements. He said 900 syphons were supplied to the defendant, and of these 794 had been returned. Since the dispute seven more had been recovered from a Mr. Philpott.

In cross-examination, witness said he formerly represented Messrs. Taylor & Co., before that business was taken over by Idris & Co. In the time of the former he made no charge for syphons. There was no intimation on the invoices that syphons would be charged for. He expected to get them back from the customers they were supplied to.

Mr. Thos. Howell Williams Idris, managing director of the plaintiff company, gave similar evidence, and said sometimes syphons were paid for in advance, and sometimes they were lent and booked as a loan account. He emphatically denied, in cross-examination, that syphons were sent out in any way but on loan, and added that the balance was not made up until the account was closed.

Mr. Thos. Percival Chubb, secretary to the plaintiff company, and formerly manager to Messrs. Taylor, said in the time of the latter firm customers were always made responsible for the return of the bottles or syphons or their cost. The present company sent in their bottle account every month in some cases, but in the majority of cases once a year.

Mr. Davenport, secretary to the Mineral-water Bottle Exchange of London, said the custom in the syphon-trade was that in all cases the responsibility rested with the customer. In cross-examination, he admitted that the rules of Margate and Ramsgate were an exception to the rules of London and the whole of the country.

This closed the case for the plaintiffs.

Mr. Green said plaintiffs' manager told him that he was willing to do business with him on the same terms as local dealers gave—viz., that he (defendant) should not be made responsible for either bottles or syphons. When defendant told him that he did not make his customers responsible for the bottles supplied to them, Mr. Goodner said, "If you do not get them back we shall, one way or the other." He was never charged for anything but the contents of the syphons, no charge being made for either syphons or bottles. On four occasions only was he credited with any returns out of the 600 sent back. When he received the first bottle account he communicated with the company, and Mr. Odgers, who called, agreed that perhaps he was not liable as far as past trading was concerned, but said that in future he would have to be responsible. Mr. Odgers was then told that on those terms they could do no further business, but subsequently Mr. Odgers requested witness to continue on the old terms until he had seen the directors. Then Mr. Idris came down, and the result of the interview was that they mutually disagreed.

Cross-examined: As he was not responsible, and the risk was with the plaintiffs, he had not kept a debtor and creditor account between himself and his customers. Had the risk been his he would have done so. The goods were booked out, but not the returns, as they might be returned to Idris through another dealer, and, possibly, customers might return them direct. He suggested that plaintiffs had had the 900 syphons returned to them, but could not state how. He dealt with Schweppes and paid for the bottles, but he made no charge to customers.

Mr. Frederick William Thompson, of the firm of Crawford & Co., Margate, confirmed defendant's evidence.

Mr. Bugden, formerly manager to Messrs. Wastall & Co., Margate, said he made an agreement with Mr. Goodner that the above firm should not be responsible for bottles or syphons supplied by Idris & Co.

Mr. Poyser asked his Honour to find that the custom that had been attempted to be set up was an unreasonable one.

His Honour found that the contract was entered into by Mr. Green as stated by him, and that being so Idris & Co. could not recover in that action. Judgment was entered for defendant on the question of facts, but he held that no general custom had been proved.

Upon that Mr. Poyser said he should not ask for leave to appeal.

Bankruptcies and Failures.

Re ROBERT AUSTERBERRY, Southgate, Pontefract, Liquorice-refiner.

THE accounts herein show gross liabilities 1,875*l.* 7*s.* 7*d.*, of which 815*l.* 19*s.* 5*d.* is due to sixty-eight unsecured creditors, one creditor for 1,059*l.* 8*s.* 2*d.* being fully secured. The assets are estimated to realise 39*l.* 11*s.* 5*d.*, the deficiency being 776*l.* 8*s.* Debtor informs the Official Receiver that for a time he traded in partnership with a Mr. Kikhenman under the style of "R. Austerberry & Co." An arrangement was made with Kikhenman to pay 500*l.* for his share in the business when he entered in the year 1890. He paid 200*l.* and gave bills for the remainder, but failed to meet them, and absconded in 1893, leaving debtor to meet the bills which had been deposited with the bankers. The Official Receiver says that debtor has kept a cash-book and ledger of

book-debts. His freehold property is heavily mortgaged, and estimated to have no surplus value.

Re J. Boyle, Londonderry, Chemist.

A private meeting of creditors has been held hereunder, at which it was decided to accept a composition of 4*s.* in the pound, payable by instalments at three, six, nine, and twelve months, the last instalment to be secured. The statement of affairs presented at the meeting showed unsecured liabilities 469*l.*, and assets, consisting of stock-in-trade, book debts, &c., estimated to produce 159*l.*, from which 32*l.* 10*s.* had to be deducted for the claims of preferential creditors payable in full, leaving net assets at 116*l.* 10*s.*, and disclosing a deficiency of 353*l.* The following are the principal creditors:—

	£	s.	d.
Apothecaries' Hall, Dublin	10	0	0
Ayrton & Saunders, Liverpool	19	0	0
Boyle, B., Londonderry	80	0	0
Boyle, C., Londonderry	120	0	0
Breidenbach & Co., London	6	0	0
Doherty & Boyle, Londonderry	10	0	0
Evans, Sons & Co., Liverpool	41	0	0
Hopkinson & Co., London...	19	0	0
Hunt & Co., Dublin...	114	0	0
Kerfoot, T., & Co., Manchester	10	0	0
Lorimer & Co., London	6	0	0

Re George William Stones, Livesey, near Blackburn, and formerly of Lancaster, Chemical-manufacturer.

In the Official Receiver's statement of affairs of this debtor, dated June 3, the gross liabilities are returned at 3,160*l.* 0*s.* 3*d.* of which 2,740*l.* 9*s.* 9*d.* is expected to rank against the estate for dividend. The assets are as follows:—Stock-in-trade, 60*l.*; machinery, 150*l.*; trade-fixtures, &c., 600*l.*; furniture, 400*l.*; office-furniture, 20*l.*; book-debts, 25*l.*; total, 1,255*l.* After deducting 159*l.* for preferential claims the net assets are estimated to realise 1,095*l.* 9*s.* 6*d.*, leaving a deficiency of 1,645*l.* 0*s.* 3*d.* Debtor alleges that his failure is due to the large expense in which he was put to in reconstructing his plant and insufficient sales.

Re Benjamin Taylor, Dunholme, Manufacturer of Herb-medicines and Pills.

This debtor came up for his public examination at Lincoln Bankruptcy Court on July 27. The accounts show liabilities 125*l.* 8*s.* 9*d.*, and assets valued at 46*l.* 12*s.* Debtor, who said he was a quack-doctor, did not satisfy the Official Receiver with regard to the disposition of certain property. The Official Receiver requested that the examination should be adjourned until September 28, so that he might get at the bottom of the case. This was granted.

Gazette.

PARTNERSHIPS DISSOLVED.

Laughland, J., Mackay, A. M., and **Baker, F. W. J.,** under the style of Laughland, Mackay, & Baker, Lime Street, E.C., Australian and New Zealand merchants; so far as regards F. W. J. Baker.

Leslie, W. M., and **Leslie, J. G.,** Norton Folgate, Bishopsgate, E.C., medical practitioners.

Priestley, J., and **Hopkinson, A.,** under the style of Priestley & Hopkinson, Withington and Fallowfield, near Manchester, general medical practitioners.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Receiving Order.

Sykes, Edwin John, York House, West Green Road, Tottenham, N., physician.

Adjudications.

Gillespie, James Hargreaves, Doncaster, veterinary surgeon.

Law, Ozias (trading as Ellis Law & Son), Doncaster and Thorne, mineral-water manufacturer.

Underwood, George Frederick (trading under the style of G. D'Alberte & Co.), Kennington Road, S.E., wholesale and export perfumer and manufacturing chemist.

The Government Sale of Food and Drugs Bill.

We append a copy of the Bill introduced to the Hou of Commons on Monday night last by the Preside of the Local Government Board to amend the Acts relati to the Sale of Food and Drugs:—

Be it enacted by the Queen's most excellent Majesty, and with the advice and consent of the Lords Spiritual, a Temporal, and Commons, in this present Parliament assemble and by the authority of the same, as follows:—

1. It shall be the duty of every local authority entrust with the execution of the laws relating to the sale of fo and drugs to put in force from time to time, as occasi may arise, the powers with which they are invested, so as provide proper securities for the sale of food and drugs in pure and genuine condition, and in particular to direct the officers to take samples for analysis.

2. The minimum fine for a second or subsequent offen under the Sale of Food and Drugs Act shall be five poun and in the case of a third or subsequent offence the co may in its discretion impose imprisonment without t option of a fine.

3. Where a person convicted of an offence under the Sa of Food and Drugs Act has been within twelve months pr viously convicted of another offence under those Acts, t Court may, if it thinks fit, and finds that he knowingly a wilfully committed both those offences, order that a noti of the facts be affixed in such form and manner, and f such period not exceeding twenty-one days, as the Co may order, to any premises occupied by that person, and th he do pay the costs of such affixing, and if any person o structs the affixing of any such notice, or removes, defac or conceals the notice while affixed during that period, h shall, for each offence be liable, on summary conviction, to fine not exceeding five pounds.

4.—(1) The letters required to be printed on the pap wrapper in which margarine is sold shall be not less th ½ inch long and distinctly legible.

(2) The inclosure of margarine in a wrapper labelled required by law shall be sufficient notice to the purchas that the contents are margarine.

(3) Margarine not packed or not consigned in accordan with the requirements of law is prohibited to be import into the United Kingdom or Ireland, as if it were includ in the table of prohibitions contained in section forty-t of the Customs Act, 1876.

(4) This section shall be construed as part of the Margari Act, 1887.

5. Every person who sells milk from a vehicle or from can or other receptacle shall have inscribed on the vehic or receptacle the name and address of the person by who or on whose behalf the milk is sold, and, in default, sh be liable on summary conviction to a fine not exceedi two pounds.

6. The division required by section fourteen of the Sale Food and Drugs Act, 1875, of an article purchased f analysis shall be made in the case of samples taken of mi in course of delivery.

7. Every tin or other receptacle containing condens skim milk must bear a label on which the words "Condens Skim Milk" are printed in large and legible type, and if a person sells or exposes or offers for sale condensed skim mi in contravention of this section, he shall be liable on sum mary conviction to a fine not exceeding two pounds.

8. The label referred to in section eight of the Sale Food and Drugs Act, 1875, shall not be deemed to be di tinctly and legibly written or printed within the meaning that section unless it is so written or printed as not to obscured by the other printed matter on the label: Provid that nothing in this enactment shall affect any register trade-mark, but the Comptroller-General of patents, desig and trade-marks shall not register any trade-mark purpo ing to describe a mixture unless it complies with the requi ments of this enactment.

9.—(1) The limit of twenty-eight days fixed by section t of the Sale of Food and Drugs Act Amendment Act, 187 for the service of a summons under the Sale of Food a

Drug Act shall extend to non-perishable articles, and the word "and in the case of a perishable article" in that sect shall be repealed.

(2) Any such summons must be served not less than four days before the day on which it is returnable.

(3) There must be served with any such summons a copy of a analyst's certificate obtained on behalf of the prosecutor.

10 A warranty shall not be available as a defence to any proceeding under the Sale of Food and Drugs Acts unless the defendant has, within seven days after receipt from the purchaser of notice of his intention to take proceedings, sent to the purchaser a written notice stating that he intends to rely on the warranty, and specifying the name and address of the person from whom he received it.

11 The justices or court of appeal shall, on the request of either party under section twenty-two of the Sale of Food and Drugs Act, 1875, cause an article of food or drug to be sent to the Commissioners of Inland Revenue for analysis.

12 (1) The certificate of analysis required by the Sale of Food and Drugs Act, 1875, shall be in a form prescribed by the Commissioners of Inland Revenue, and section eighteen of that Act, and the schedule to the Act, are hereby repealed.

(2) At the hearing of the information in any proceeding under the Sale of Food and Drugs Acts, the production by the defendant of a certificate by a public analyst shall be sufficient evidence of the facts therein stated, unless the prosecutor requires that the analyst be called as a witness.

(3) The certificate of analysis given under section twenty-two of the Sale of Food and Drugs Act, 1875, by any chemical officer at Somerset House shall be sufficient evidence of the facts therein stated, unless either party requires that the analyst be called as a witness.

13 (1) This Act may be cited as the Sale of Food and Drugs Act, 1897, and shall, except as specially provided by this Act, be construed as part of the Sale of Food and Drugs Act, 1875.

(2) The Sale of Food and Drugs Act, 1875, the Sale of Food and Drugs Act Amendment Act, 1879, the Margarine Act, 1887, and this Act may be cited collectively as the Sale of Food and Drugs Acts, 1875 to 1897, and are in this Act referred to as the Sale of Food and Drugs Acts.

(3) This Act shall come into operation on the first day of January, one thousand eight hundred and ninety-eight.

Trade-Marks Applied for.

(*From the "Trade Marks Journal," July* 28, 1897.)

"Sa[illegible]"; for all goods included in Classes 1 and 2; and chemical substances for use in medicine and pharmacy in Class 3. By Henry Solomon Wellcome, trading as Burroughs, Wellcome & Co., Snow Hill Buildings, London, E.C., manufacturing chemist. 198,970.

Sket[illegible] of prize-fight, and wording; for all goods contained in Class 2. By G. P. Sargent, Albert Cottages, Edward Road, Barnet, Herts, proprietary-article vendor. 205,206.

Figu[illegible] of hay-rake in double circle, and the word "Kurake"; medicines for human use. By Jones & Sons, County Supply Stores, Long Bridge Street, Llanidloes, chemist. [illegible],778. The essential particular is the rake device.

"Ca[illegible]o," and device, with wording on label; for a medicinal preparation for human use. By C. W. Brooks, 9 Market Street, Weymouth, pharmaceutical chemist of Ireland. [illegible]2,099. Essential particulars: the word "Canbo" and device.

Facs[illegible]ile signature of applicant, and wording "Austin's Healing Balm," &c; for an ointment for human use. By. H. J. Austin, Saudpit Farm, Bledlow, Princes Risborough, Bucks, perfumer maker. 203,059. Essential particular: the signature.

"To[illegible]INE"; for an ointment, the base specially prepared for use in medicine and pharmacy. By J. F. Macfarlan & Co., Dobbyhill Chemical-works, Edinburgh, manufacturing chemists. 204,036.

Facs[illegible]ile signature of applicant; for chemical substances prepared for use in medicine and pharmacy. By Jeannette Pomeroy, 29 Old Bond Street, London, W., complexion specialist. 204,833.

Marriages.

BYE—RHODES.—On July 27, at the Parish Church, Penistone, by the Rev. Canon Tumbull, Miss Emma Isabella Rhodes, eldest daughter of the late Mr. T. P. Rhodes, chemist, Croydon, to Mr. Fred. Bye, Head Master of St. Mary's School, Sheffield.

FRANCIS—SCHOFIELD.—On August 2, at St. Mary Abbots, Kensington, London, by the Rev. W. St. J. de la Bere, M.A., James B. Francis, of the firm of Francis & Co., chemists, Wrexham, to Evelyn, third daughter of A. Schofield, Esq., Ivyholme, Buxton,

HOLMES—GREATBATCH.—On July 27, at St. Stephen's, Ealing, by the Rev. Dr. Tupholme, D.D., Vicar, Frederick George Holmes, chemist, Brill, to Lillie Greatbatch, daughter of the late Isaac Greatbatch, of London, and Tendring, Essex.

KNOTT—UMNEY.—On July 27, at St. John the Evangelist's, Penge, S.E., by the Right Rev. Bishop Selwyn, D.D., Master of Selwyn College, Cambridge, assisted by the Rev. W. Smyly, M.A., Vicar, the Rev. F. G. Knott, M.A., Head Master of the Skinners' School, Tunbridge Wells, and the Rev. P. T. P. Knott, M.A., Curate of Broadwindsor, Dorset, brothers of the bridegroom, Hammett Charles Knott, M.A., Dean of Selwyn College, Cambridge, second son of F. Singleton Knott, of Guildhall and Crystal Palace Park Road, to Ada Maude, elder daughter of Charles Umney, of Southwark and Sydenham.

TIMMS—ALLAN.—At 9 Irving Street, Dumfries, on August 3, by the Rev. Alexander Chapman, M.A., parish of St. Mary's, Alfred Henry Timms, solicitor, Swadlincote, Derbyshire, son of George Timms, of Savings Bank, Ashby-de-la-Zouch, to Mary Reid, second daughter of William Allan, pharmaceutical chemist, Dumfries.

Deaths.

COSSENS.—On July 16, Mr. William Cossens, chemist and druggist, late of Monmouth. Aged 63.

HUNT.—On July 16, Mr. Thomas Hunt, chemist and druggist, Grantham. Aged 79.

LYMAN.—Mr. Henry Lyman, senior partner in Lyman, Sons & Co., Montreal, died in that city on July 19. Mr. Lyman was an American. He was born at Derby, Vermont, in 1813, but had lived in Montreal from his youth. In 1829 he joined the firm of Hedge & Lyman, druggists, with which he has been connected ever since. In 1851 he was a member of the Canadian commission for the London exhibition, and received a diploma and medal for his services. In 1853 he was first elected Alderman for Montreal, and rendered great services to the city, especially in the establishment of the waterworks and the introduction of the fire alarm telegraph. In 1856 he was honorary treasurer of the celebration of the opening of the Grand Trunk Railway. When the Trent affair threatened to bring war between Britain and the States, Mr. Lyman helped to raise a volunteer battalion of Canadian infantry to help the Mother Country. He also served at the time of the Fenian invasion of 1866, retiring shortly afterwards with the rank of major. He was elected a director of the Citizen's Insurance Company in 1867, of which he afterwards became President. He was also a director of the Canadian Shipping Company, and a member of the Board of Health.

RODGER.—On July 25, Mr. John Rodger, chemist and bookseller, Inverary, Argyllshire. Mr. Rodger, who was a native of Glasgow, went to Inverary about forty years ago, taking over a business from Bailie Macdonald. For twenty-four years he held the appointment of Inspector of Poor for the parish, and was subsequently appointed Clerk of the Parish Council. For many years he held a seat in the Town Council, and in November last was elected Provost of Inverary, and was made a Justice of the Peace. His services to the community were recognised about a year ago by the presentation of a silver tea-urn by the Town Council.

WILLIAMS.—On July 22, Mr. Richard Eustace Williams, chemist and druggist, Cardiff. Aged 49.

Westminster Wisdom.

Bills Passed.

The Weights and Measures (Metric) System Bill, the Cleansing of Persons Bill, and the Workmen's Compensation for Accidents Bill have now passed through all their parliamentary stages.

Opium in Ceylon.

The question of the sale of opium in Ceylon has for some time past engaged the attention of the Colonial Office. It was announced some time ago that the Ceylon Government had decided to raise the import duty from 1r. to 2r. per lb. According to Mr. Chamberlain, further proposals to prevent the spread of opium smoking are under consideration.

Vaccination.—Important Changes Foreshadowed.

In the course of the proceedings in the House of Commons on Monday in supply on the Local Government Board vote, Mr. Chaplin made a rather important statement regarding the position of the Board with respect to vaccination. He had just received the draft report of the inspectors of the Board, who have been making inquiries at home and abroad since the report of the Select Committee on vaccination was presented last year. From his perusal of the draft Mr. Chaplin has concluded that sooner or later there will have to be a complete reform of all the laws relating to vaccination. The inquiry of the inspectors appeared to show that in future vaccination would be performed in one of two ways—either directly from the calf, or by means of calf-lymph preserved in glycerine. The effects of the new method of preserving calf-lymph were, he was told, very remarkable. The amendments of the law which it would be necessary to propose were now under consideration.

The Sale of Food and Drugs Bill.

A Bill to amend the Acts relating to the Sale of Food and Drugs was brought in on Monday by Mr. Chaplin, who on rising was met with ironical cheering from the Liberal side. Mr. Chaplin said: "A request of this kind at such a late period of the Session is, I know, unusual. ("Hear, hear," and laughter.) But we have no intention of proceeding with the Bill. It is being brought in merely in fulfilment of a pledge, and is designed to give effect to some of the less controversial recommendations which were made by the Select Committee on Food and Drugs. My object in introducing the Bill—or in asking the House to give me leave—is that during the recess we may be able to obtain some idea of the general drift of opinion regarding the subject." Leave having been given, the Bill was brought in and read a first time amidst cheers and laughter, chiefly from the Nationalist benches. Mr. Chaplin intimated that the Bill was backed by Mr. T. W. Russell and himself.

Personalities.

The name of John F. Walker, London Hospital, a scion of the Bath Street firm, appears in the pass-list of the Inter. M.B. London exam.

The proprietor of the Lowestoft Original Pharmacy (established in 1817), reproduced in our columns last week, is Mr. A. H. Hinde, not Hindle, as stated in error.

Mr. Pelham C. Maitland, of Great Portland Street, London, W., formerly a chemist at Stonehouse, has passed the examinations and been admitted to the membership of the Royal College of Surgeons (England).

Mr. Harry Grimshaw, a manufacturing chemist of Clayton, Manchester, has been selected as the Liberal candidate for the vacancy in the Bradford ward of the Manchester City Council, caused by the resignation of Mr. John Hutt, a clothier.

The Hon. F. S. Grimwade, M.L.C., of Melbourne, who has been spending three or four months in England this year with a part of his family, left Liverpool last week for Montreal. He will make a tour through Canada on his way back to Australia.

Mr. J. C. Hewlett, F.C.S., of C. J. Hewlett & So Charlotte Street, E.C., is at present in Norway, looking aft the interests of the firm, which has long had an exte sive connection there. Business communications may addressed c/o Mr. Jacob Christenson, Bergen.

Mr. Marmaduke Richards, formerly with Messrs. Bu roughs & Co., Oxton, Birkenhead, who left England months ago, has succeeded to the position of manager a general secretary of Maynard & Co. (Limited), wholesale a retail chemists, Singapore, Straits Settlements.

Mr. A. H. Hinde, chemist, Lowestoft, has written "Popular Guide to the Broadland River Trips," which published at 1*d*. by Messrs. A. Crisp & Son. It describe the trips from Lowestoft to Yarmouth and Norwich and t intermediate journeyings by river. Mr. Hinde will send copy to any chemist who will send a stamped envelo for it.

Mr. C. Goddard Clarke, J.P., has been selected as o of the Progressive candidates for Peckham for the Coun Council election in March next. Mr. Clarke is the Preside of the local Liberal Association, and was an unsuccess candidate for Brixton at the last London County Coun election, as well as for Dulwich at the Parliamentary electi in 1895.

Mr. John Dunlop and Mr. Joseph Sanderson, both whom are chemists and druggists at Glasgow, have gain the Scotch triple qualification of the Royal College Physicians and Surgeons of Edinburgh and Faculty Physicians and Surgeons of Glasgow. Mr. Dunlop pas with honours, highest on the list. While studying at S Mungo's College he was also awarded the only medal midwifery and clinical surgery, besides honours in almost the other classes.

Trade Notes.

The Manchester Branch of Camwal at Stockport Ro Longsight, under the management of Mr. Groome, is no open and ready to supply goods to members.

The Washington Chemical Company (Limited), Ne castle-on-Tyne, are now supplying liquefied carbonic-ac gas in steel cylinders, made according to the requiremen of the Board of Trade. Each tube contains 28 lbs. of pu liquefied gas.

Dermacura is a well-chosen title for a new speciall prepared superfatted skin-soap which Messrs. Raimes, Cla & Co., of Edinburgh, are introducing to the trade. It delicately perfumed, very agreeable in use, and is pack in an attractive style. The firm make also a Dermacu shaving-soap.

Daisy (Limited) will open a new factory at Leeds August 23, and to celebrate the occasion they will give substantial treat to their employés on that date, and th also announce to their customers that the first order th open from their letter-box on that date shall be double For particulars of this and other opening-day offers their announcement.

Messrs. Reynolds & Branson, Leeds, write to cla that the enema cupboard, which is stated on page 184 our Summer issue, to have been designed by Mr. A. Caldecott, of Wrexham, corresponds very closely with design invented, and registered on December 6, 1895, "one or more" enemas by Mr. Fred Reynolds. The firm that they should certainly stop anyone selling such cupboards.

Our attention has been called to a few minor inaccurac in the account of a visit to some German factories in Summer number. Bieber's factory, it appears, was found so far back as 1845, and transferred to the suburb Uhlenhorst in 1860. The firm of Fr. Feustell do not imp patchouli oil, but patchouli-leaves, from Penang; the oil distilled at Hamburg. For "dementholised variety Japanese peppermint oil" the words "menthol crystal should, of course, have been used in this article. Cuban a Benguela beeswax bleach very readily; Madagascar a Italian wax cannot be bleached white at all.

Scientific Notes.

em y, Pharmacy, Botany, Materia Medica, &c. Original, Selected, and Translated.

CARPAINE.

HIS an alkaloid obtained by Van Rijn from the leaves *Car a Papaya*. It forms crystalline salts, and has the nul $C_{11}H_{25}NO_2$. Clinical experiments have shown that it a owerful action upon the heart. Papain-leaves also tain glucoside, named carposide, which, though soluble vat and spirit, is insoluble in ether, so that it is easily arat from carpaine.

THE ODOUR OF OIL OF TURPENTINE.

ON ZIGETHY considers that the odour of turpentine is ox tion-product of pinene, an aldehyde, probably $H_{16}O$ which never exceeds 1 per cent. in amount, and is ned atmospheric oxidation. It soon condenses, forming non substances, thus causing the thickening of the oil. n Sz thy obtains an odourless turpentine by rectification a rar ed atmosphere of carbon dioxide.

ASSAY OF BORIC WOOL.

SHA 5 grammes of the wool (or lint) in a ½-litre flask h 40 c.c. of a mixture of 1 part of glycerine and 19 parts of ter, d fill up to the 500-c.c. mark with water. Allow to tle, eant 100 c.c. of the fluid and titrate it with deci- mal da-solution, using phenolphthalein as an indicator. e nu ber of c.c. used multiplied by 0 0062 gives the ount f boric acid in 1 gramme of the wool.—*Chem. t.*

ACIDS IN RHUBARB-LEAVES.

DR. OTTO, whose work on the acids of rhubarb-leaves s noted in THE CHEMIST AND DRUGGIST xlvii., 356, has ntinu it, and reports on the matter to the *Apotheker itung* No. 37, page 306. The observations made in 1896 nfirm hose of the previous year—viz., that the acidity crease as the plants mature. The averages of seven species e as f ows:—up to May 1, 1·112 per cent.; May 1 to 13, 351 p cent.; May 13 to 29 (during the flowering), 2 009 r cen and May 29 to June 20 (after the flowering), 1 947 r cen These are the terms of acidity calculated as malic id; bu in the early stages oxalic acid is chiefly present, and the p nts advance that acid seems to be changed into alic a l and sugar.

OIL OF WILD BERGAMOT.

Mona a fistulosa, Linn., grows fairly abundantly in the nited ates, and is known as wild bergamot, on account the our of its essential oil. Mr. E. J. Melzner, of the nivers of Wisconsin pharmaceutical laboratory, has con- nued a investigation of the oil, which had previously been eporte pon in the *Pharmaceutical Review*. His present eport d ls with the distillation of the oil, he having in the nonth July subjected stems, leaves, and flowers to dis- llation the same in August, adding the fruit; and again in eptem , with stems and leaves only. The percentage of il obta d varied from 0·63 to 0 91, the highest yield being hen st s, leaves, flowers, and fruit were used. Eleven oils ere th obtained, and each one is reported upon in respect o speci gravity, phenol (carvacrol) content, and opticity. nfortu tely, Mr. Melzner took his specific gravities at the tempe ure of room," but we have no guide to that except hat it s above 20° C. However, the factors varied between 922 ar 0 931, one specimen being abnormal—0 902. The henol- tent was between 58 82 and 68 85 per cent.

YERBA DEL POLLO.

THIS ant has long had a reputation in Mexico as a valuabl emostatic. In the form of extract it is used by the mo distinguished physicians of Mexico in the treat- ment o metrorrhagia and hemoptysis, administered in 1 or 2 g pills in the former cases, and injections in the latter. rofessor Herrera, of Mexico, has communicated a paper it to the Philadelphia College of Pharmacy. Chemic examination showed that the juice contains acetic acid; al in the extract ammonium acetate, potassium chlorid albuminoids, vegetable albumin, chlorophyll, extractive, and cellulose. Ammonia may be obtained even at an ordinary temperature by wetting the powdered plant and mixing it with lime or carbonate of potassium or sodium. Professor Herrera believes that the hemostatic action of the plant is due to the fact that when its proteid principle comes in contact with blood the free alkali of the latter reacts upon the former to liberate ammonia, which reacts upon the blood-vessels, irritating their tissue and contracting them, as Bèclard has observed. Indeed, it is affirmed that in several physiological experiments, this contraction has been observed.—*Alumni Report.*

VANADIUM AND SOME OF ITS USES.

MR. JOHN M. TOBIN states in the *Pharmaceutical Era* that the chief use of vanadium is in the manufacture of ammonium vanadate, which is used entirely in the arts, in dyeing, ink-making, and photography. It has not been used to any extent in medicine, but lately has been used as a test for the alkaloids. In making ammonium vanadate the concentrated ore is fused with nitrate of potassium and dried carbonate of sodium in plumbago crucibles. After cooling it is ground very fine, washed with boiling or hot water several times, the solution concentrated and saturated with ammonium chloride (free from iron), which precipitates ammonium vanadate in very fine powder. Further purification may be effected by repeated fusings with nitrate of potassium and sodium carbonate, &c., as above, and again precipitating with ammonium chloride. The following formula produces a very satisfactory photographic developer:—

Vanadium pentoxide	1 dr.
Sulphuric acid	2 dr.
Water	2 oz.

Add metallic zinc in excess; after effervescing has ceased, and the solution is lavender coloured, filter quickly and cork tightly.

One drachm of the solution to one pint of water makes a very good developer, and is intensified by dilute acetic acid. The concentrated solution does not keep well, but can be quickly restored to activity by adding sulphuric acid and metallic zinc in excess, until lavender coloured, as originally.

MELTING-POINTS.

PROFESSOR J. B. NAGELVOORT prints a timely note in the *Apothecary* regarding the methods of determining the melting-points of crystalline substances. There seems to be no agreement amongst authorities about the matter, and that a uniform method recognised by all scientific men is desirable may be judged by the following figures:—

—	Slowly melted	Quickly melted. Zinck's thermometer
	Degrees	Degrees
Acetanilide	113	100
Antipyrin	107	107
Atropine sulphate	190	195
Benzoic acid	120	117
Caffeine	231	231
Cocaine	98	90
Cocoaine hydrochloride	186	192
Codeine	150	150
Chrysarobin	151	146
Hyoseyamine	107	105
Hyoseyamine gold chloride	160	154
Phenacetin	133	123
Picric acid	120	115
Resorcin	114	106
Salicylic acid	155	155
Salicin	194	198
Santonin	169	169
Terpine hydrate	110	114

Professor Nagelvoort comments upon several influences which induce variation. It would be well, we think, that writers should in all cases specify the quantity of the substance used in their experiments, the manner of working, the condition of the substance, and the time occupied for complete fusion.

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THE PHARMACEUTICAL SOCIETY'S BY-LAWS.

The Council have again got their by-laws through their ante-Privy Council stages, and they now await once more the wisdom of Whitehall. A majority of the Council and a score of their loyalest backers constituted the special general

seeing. It was the hottest hour of the hottest day of a particularly hot summer—a state of things which precluded the possibility of much discussion, even if any had been necessary. With the heavenly bodies as well as the Right Honourables on their side, there is, therefore, now no check whatever on any wild extravagance which the Council of the Pharmaceutical Society may think fit to indulge in. But to make assurance doubly sure the President, supported by the Council, has adopted the ingenious idea of refusing to permit any amendments on the scheme which the Council has formed. The by-laws authorised by the Pharmacy Act clearly contemplate a consultation with the members generally before new by-laws can be submitted to the Privy Council for confirmation. By insisting on a simple aye or no the Council's proposals *en bloc*, the opportunity for criticising details is destroyed. The President's ruling is contrary to every principle of public discussion, and whatever may be thought of the present issue, thoughtful members of the Society must see that it establishes a dangerous precedent. The number of members who object strongly to a particular alteration is always likely to be small and their opposition is sure to be squelched by the loyal and the indifferent voters. It is true that the success of an amendment in regard to any particular point would necessitate the recommencement of the whole proceedings. Inconvenient no doubt, but a chance which the Council ought to be willing to take when they try to carry several reforms in one group.

THE GOVERNMENT'S SALE OF FOOD AND DRUGS BILL.

THE bill to amend the Acts relating to the Sale of Food and Drugs, introduced on Monday last on behalf of the Government by Mr. Chaplin as the President of the Local Government Board, but, as he said, "with no intention whatever of proceeding with it," is a reduction of legislation to a farce. The object of the Bill, Mr. Chaplin declared, was to give effect to recommendations which were made by the committee which took a lot of evidence and came to certain conclusions respecting the existing Acts. That committee held thirty-three sessions, examined sixty-eight witnesses, and at length published a report filling nearly 100 folio pages. They made a large number of recommendations, many of which, we think, were either impracticable or unwise, but which were at any rate thorough. Mr. T. W. Russell, who was the Chairman of the committee which produced that report, is, with Mr. Chaplin, the responsible author of this Bill, and his Bill embodies not more than a fourth of the recommendations which he and his committee agreed to, and half of these are merely formal declarations of the law. The important proposal to constitute a Court of Reference, which was the great achievement of the committee, and which had such fascination for so many critics, is disregarded—perhaps in deference to the arguments against it in this journal; the suggestion which Mr. Kearley adopted in his Bill, that provision should be made for taking samples from wholesale dealers, is equally conspicuously absent; and even the simple but essential recommendation that the term "food" should cover articles used with or in the preparation or flavouring of food is ignored. The Bill gives County Councils a little more power, provides more drastic punishment for repeated offences, touches margarine and milk, and requires that condensed skim milk shall be so declared on the tin. Labels about mixtures are to be so printed as not to be obscured by other printed matter, and certificates by a public analyst are to be evidence when produced by a defendant, as well as when produced by the prosecution. Mr. Chaplin says the Bill has been introduced in order that during the recess the Government might be able to ascertain the general drift of opinion with regard to the question. No wonder such a feeble declaration was received with "ironical cheers."

THE GERMAN AND BELGIAN TREATIES.

OUR "denunciation"—to use the current, but unnecessarily harsh, expression—of the commercial treaties between this country on the one side and Germany and Belgium on the other, is one of the principal economic events of this generation, not because of the immediate results it will have—for these are likely to be small—but because it is the first practical acknowledgment by this country that our commercial future should be sought in the direction of our own colonies rather than of continental countries. The leading facts of the question are very simple. In 1865, when the colonies were but a name, and continental nations our principal customers, Britain made treaties with Germany and Belgium under which the respective parties bound themselves to admit each other's goods upon the most favourable terms they should extend to any nation. From our side we threw in the quite unnecessary promise that we should not allow any of our colonies to put upon German and Belgian goods higher duties than were charged on British goods. That piece of folly causes all the bother now. Canada has done precisely what we undertook to prevent her from doing, and we had, therefore, to choose between giving her, in return for her proffered handshake, a slap in the face at the bidding of Germany and Belgium, or of giving to the two last-named countries notice of discontinuance of the treaty of 1865. We have done the latter, and, after July 30, 1898, there will be no tariff-obligations of any kind between the United Kingdom and Germany, or the United Kingdom and Belgium, unless, indeed, the treaties be renewed *minus* the clause relating to colonial trade.

Belgium is a country against which we have no cause of complaint. Her Customs tariff is low, she has never shown any special animosity against British goods, and she chiefly competes with us because her people work long hours for low wages. With Germany the case is somewhat different. We are her best customer, and although she takes a considerable quantity of our goods in return, she has built up a very high Protective tariff in such a way that it chiefly strikes at goods that are made in this country. In this manner we have lost, for instance, the bulk of our trade in heavy chemicals with Germany. Germany must, of course, do as she likes in her own country. We do not buy her goods to please her, but because it suits us. But there is no reason why we should go out of our way to oblige her in our colonies when she is, to put it mildly, not friendly to us. We do not, nor do the colonies, discriminate in any way against her. If Germany likes to admit Canadian goods on favourable terms she can at once share the rebate that Canada allows to British goods. Within a few years other of our colonies will probably have followed Canada's example. As for ourselves, we shall certainly not put any duties on German goods, even if Germany chooses in future to tax ours still heavier than she does now.

That the trend of our foreign trade is away from the Continent is shown by Mr. M. G. Mulhall, in this month's *Contemporary Review*. Mr. Mulhall's article, entitled "Twenty Years of Trade," is, perhaps, more optimistic than all the facts warrant, but he gives some figures that are well worth studying. Among them is the following table, showing the value

and ratio of our trade with foreign countries (aggregate of imports, exports, and goods in transit) twenty years ago and now :—

	With U.S.A.	France	Germany	Australia	India	Canada	Other countries
1875 ...	95	75	56	42	56	20	312
1895 ...	131	69	60	53	52	20	318

The figures represent millions of pounds. They show that the chief increase in our trade is with America and Australia. This is brought out still more strikingly in the figures Mr. Mulhall gives showing the proportion of our trade with the same countries in 1875 and 1895, compared with our entire foreign trade :—

	U.S.A.	France	Germany	Australia	India	Canada	Other countries
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
1875 ...	14·4	11·5	8·6	6·4	8·5	3·1	47·5
1895 ...	18·6	9·8	8·5	7·6	7·4	2·8	45·3

Mr. Mulhall also draws a roseate picture of the general condition of our trade. This may be summarised in the following figures, showing the total foreign trade (imports and exports) of the principal commercial nations of the world, and their rate of progress within the past twenty years :—

	Commerce, million £ sterling			Increase or decrease in
	1874	1884	1894	20 years
British Empire	846	967	1,038	+ 23 p.c.
Germany ...	298	323	346	+ 16 p.c.
France... ...	288	303	273	− 5 p.c.
U.S.A.	233	287	313	+ 35 p.c.
Other States ...	656	745	845	+ 30 p.c.
The world ...	2,321	2,625	2,815	+ 21 p.c.

Mr. Mulhall's figures point yet another moral—viz., that the trade of English-speaking countries, and countries under the British flag, is increasing slightly faster than that of non-English-speaking peoples. In 1874 the former amounted to 46·5 per cent. of the world's commerce, in 1884 it was 47 4 per cent., and in 1894 48 per cent. of the total.

THE EXPLOSIVE HAIR-WASH CASE.

From the evidence given last week at the concluded inquest on the victim in this case, it appears that the "hair-wash" used was simply a perfumed benzoline. Its use seems to have become popular of late as a substitute for the ordinary shampoo with soap and water, both on account of the ease with which it removes grease and dirt (owing to its powerful solvent action on fats) and from the fact that drying very rapidly it does not make the operation anything like so prolonged as when water is used in the process. It is, of course, well understood that benzoline gives off large quantities of inflammable vapour at the ordinary temperature of the air, and it is easy to imagine many ways by which it could be ignited, although the precise method in this case is left a mystery. Among the many ingenious suggestions, the one which is finding most favour is the conjecture that electric sparks, often produced by brushing the hair, caused the ignition. To us it is somewhat difficult to imagine a discharge of electric sparks taking place in hair thoroughly wetted, even with benzoline (the evidence showing that the hair was being wrung out at the time), when we consider that dryness is always a condition of the production of sparks in such cases. One of the witnesses remarked that there had been a run on the preparation since the publication of details of its use; and although we do not think any chemist would now sell such a dangerous liquid for the purpose, he would, perhaps, be quite justified in selling a spirituous form of wash for dry shampoo, which dries almost as quickly, whilst giving off less dangerous vapours. This could be sold as "free from petroleum." Of many kin we have examined of late the following appears to be a go average formula :—

Alcoholic ammonia	℥iv.
Tincture of quillaia	℥iv.
Ess. bouquet	℥ij.
Rectified spirit	℥vij.

Mix.

Rub well into the hair, and rinse with a larger quantity; t rub dry with a soft towel. The operation should be conducted the day-time.

SPECULATING IN COD-LIVER OIL

The case of Bevan and others *v.* Kumpff & Eckenstein a others, which we reported in our supplement of last we and reprint on page 230 of this issue, presents features t will interest every dealer in drugs who watches the Mine Lane markets. Fortunately there are but few articles in drug-trade of sufficient general commercial importance attract the eye of that nefarious creature, the professio speculator. Quicksilver and camphor are the principal ceptions; for spices and shellac can hardly be classed amo drugs proper. Widow ladies and others are believed to ha occasionally "plunged" in quinine, and to have had cause regret their recklessness. Cod-liver oil, however, must n be added to the drugs that have fascinated the financier large. It is to be hoped that that gentleman has sufficien scorched his fingers in the venture to induce him to le the drug-trade alone in future. There is plenty of room him outside. His purview already ranges from Kaffirs Klondike, and from soap to cycles, and we would sugg that within these four corners he can find plenty of scope the exercise of his peculiar gifts. We hope we are casting any reflection upon Messrs. Kumpff & Eckenste and the other defendants in the action referred to ab when we say that their names have not been very familia the drug-trade before, though they are likely to become bet known in that field of business now. The main facts the case—heard before Mr. Justice Mathew last wee in which they were concerned are as follows Early in 1896 there was a "boom" in cod-liver Mr. Bevan, an oil-broker, and one of the plainti probably called the attention of some of his frie to what he considered the strong position of article, and a syndicate was formed to corner the mark Three gentlemen appear to have been the first members the syndicate, but a little later the four defendants w also induced to join. The syndicate bought rather o 2,000 barrels of cod-liver oil, which at the mean prices t ruling must have represented a value of from 18,000*l.* 22,000*l.* Buying was a comparatively easy task. The ea fishing in Norway, it is true, had been a failure, and fam prices were predicted; but the operators seem to h paid imperfect attention to three factors in the position t should have weighed with most careful buyers. The first the notorious hesitation of druggists generally to buy m than would fill their immediate requirements. Those w knew the drug-trade were aware of the general reluctan of the druggists to make contracts at the exorbitant pri ruling between February and April, 1896, and that reluctan proved in the end to have been altogether justified. second neglected consideration was that although the pr cipal (or Lofoten) fishing was a failure, the Finnmar catch partly made good that deficiency. About three tim more medicinal oil was manufactured in Finnmarken 1896 than in any previous season; and although the qua of the Finnmarken oil is generally inferior to that of Lofo oil, the exorbitant prices demanded for the latter can

yet to take refuge in the cheaper product. The third int as that the reduced oil output in Norway stimulated e production in other countries, notably Newfoundland. e orld's annual consumption of medicinal cod-liver l i estimated at about 20,000 barrels. Taking into nsi ration the stock of old oil existing at the gin ng of the season, it is doubtful whether the available anty of all kinds of medicinal cod-liver oil last year fell r s rt of the requirements. The syndicate began its era ns early in the year, when prices were already more an ouble of a fair average quotation, and rose weekly der e influence of alarmist reports from Norway. When e s dicate had over 2,000 barrels on hand they stopped yin and awaited their chance of unloading. Meanwhile mm had come, and with it the dead season for cod-liver l. e autumn did not bring the expected improvement, d in December, when the new fishing-season was drawing ar, ces began to fall very considerably. If our informa- n b correct, the syndicate had unloaded almost all its ldin by the end of the year. We do not know what ure were realised, but that there must have been a con- dera e loss is evident from a glance at the subjoined ble ing the course of prices of best non-congealing old d n season's Lofoten oil from January, 1896 onwards. e pr es are per barrel of 25 gallons, on the spot in London, cept here otherwise stated:—

	Jan., 1896	Feb., 1896	March, 1896	April, 1896
d	170s.–175s.	160s.–190s.	190s.–205s.	200s.–215s.
ew	185s., c.i.f.	190s.–220s., c.i.f.	215s.–240s.	205s.–230s.

	ay, 1896	June, 1896	July, 1896	Aug., 1896
d	—	—	—	—
ew	s.–200s.	180s.–185s.	165s.–172s. 6d.	160s.–170s.

	ept., 1896	Oct., 1896	Nov., 1896	Dec., 1896
d	—	—	—	—
ew	s.–172s. 6d.	167s. 6d.–180s.	160s.–175s.	145s.–155s.

	Jan., 1897	Feb., 1897	Mar., 1897	April, 1897
d	25s.–140s.	85s.–115s.	75s.–85s.	61s.–70s.
ew	s.–140s., c.i.f.	100s.–120s.	75s.–90s.	70s.–90s.

	May, 1897	June, 1897	July, 1897
d	65s.–67s. 6d.	—	—
ew	68s.–75s.	65s.–62s. 6d.	65s.–61s.

This able shows what a hopeless thing it was to begin pecula g on so large a scale, when the price was already at of proportion high. When the day of settlement rived he four speculators who were the last to join the ndica tried to get out of paying their share of the loss y alle g that the full facts of the position were not dis- osed them when they joined the band. The jury found herwi, and the disappointed operators will have to pay e cos of the action in addition to their share of the loss n the -deal. It is safe to say that there will not be any xcessi sympathy with them in Mincing Lane. But if ey sti feel anxious for triumphs in cod-liver oil dealings, e ma suggest to them that the present state of the arket more favourable than that at the time when they arted ying.

BRITISH PHARMACEUTICAL RECIPROCITY.

IV.

When e compare the regulations of the Australasian ualifyi Boards with those of Great Britain we find that hese c nies have high claims for consideration. The ollowin table summarises the conditions at present in force there, but we may state that the law in New South Wales lacks enforcement as well as consolidation:—

Colony	Preliminary	Experience	Education	Examtn.
Victoria ...	Exam. as in G. B. before apprenticeship	Four years	Curriculum compulsory	Like the Minor
South Australia	Same exam., but no restrictions	Ditto ...	Lectures provided but not compulsory	Ditto
Queensland	Ditto ...	Three years	Ditto ...	Ditto
N. S. Wales	Ditto ...	Ditto ...	Ditto ...	Ditto
W. Australia	Ditto ...	Four years	— ...	Ditto
Tasmania ...	Ditto before apprenticeship	Ditto ...	— ...	Ditto
New Zealand	Ditto ...	Three years	— ...	Ditto

The tendency of the colonial Pharmacy Boards in the past has been to adopt the Bloomsbury conditions as far as possible. Thus, the Preliminary examinations are exactly the same in syllabus, and, judging from the examination-papers which are regularly published in the *Chemist and Druggist of Australasia*, the examination even in the smaller colonies is as searching as that set by the College of Preceptors, and in some cases the standard is higher. The initiative taken by the Victoria Board of Pharmacy and the Pharmaceutical Society of Tasmania, of requiring this examination to be passed before apprenticeship, is excellent. The Tasmania Society is, we may say, the oldest pharmaceutical examining body in the British Empire, because it has since 1890 taken over the pharmaceutical licensing functions which were instituted by the Medical Board of the colony in 1837 and carried on interruptedly since. The colonies are also alive to the importance of collegiate training in the sciences, and although Victoria is the only one which has obtained statutory powers for enforcing a curriculum, the Societies of New South Wales, South Australia, and Queensland have made arrangements for voluntary lectures. In regard to the qualifying examination, it will be observed that four years' practical engagement in pharmacy is, as a rule, an essential preliminary, and, as in all other parts of the Empire, candidates must be 21 years of age. In several of the colonies the examining Boards have adopted the old Minor syllabus, but in some others this has been altered as experience has been gained. Thus, botany seems not to get that prominence which it has with us; but in Victoria, the colony where that is most noticeable, the subject is included in the compulsory curriculum, therefore it is not neglected in the examination. Generally the examinations are in writing, as well as oral and practical. Mr. Hickson, the Secretary of the Tasmania Society, informs us that the examination there is "oral and part written, and extends over two days, the practical dispensing being made a special feature, and occuying half a day." Similar conditions prevail in other colonies. To show what the examinations are we cannot do better than quote the questions in pharmacy and chemistry given by two Boards recently:—

Practical Pharmacy (Tasmania).

1. Define clearly:—Glucose, sal prunella, phenol, glucoside, *Saccharomyces cerevisiæ*, gossypium, sal volatile, eucalyptol, cacao-butter.

2. Give (*a*) the maximum dose, (*b*) the antidote, (*c*) active ingredients of p. ipecac. co., cerii oxalas, morph. bimec., opii vinum, phosphori oleum, acid. hydrocyanic., B.P. and Scheele, liquor iodi, elaterinum, cocain. hydrochlorate.

3. Sal alembroth.—(*a*) What is it? (*b*) What is it used for?

(c) Is it dangerous? (d) If so, what is the correct antidote?

4. Oleic acid.—(a) What is it? (b) How prepared? (c) How is oleatum hydrargyri cum morphiâ prepared? (d) Give the percentages of the active ingredients.

5. Syrupus ferri iodidi, B.P.—(a) How is it made? (b) Does it keep stable? If not, why is there any change? (c) Give a process more stable and easier preserved.

VI. Define clearly, step by step, how you would dispense:—

1. Phosphori ... ... gr. $\frac{1}{30}$
Quin. sulph. ... ... gr. j.
M. Ft. pil. Mitte tales 30.

2. Ol. santal. flav. ... ... ℥ij.
Ol. cubebæ ... ... ʒij.
Aq. cinnam. ... ... ℥vj.
M. Ft. mist. m.s.a.

3. Argent. nitrat. ... ... gr. $\frac{1}{2}$
Kreosoti ... ... ♏j.
M. Ft. pilul. j. Mitte tales vj. In argent. volv.

4. Ferri sulph. ... ... gr. ij.
Ergotin ... ... gr. ij.
Strychninæ ... ... gr. $\frac{1}{60}$
Acid. arseniosi ... ... gr. $\frac{1}{30}$
Ft. pil. j. Mitte 60 tales. In argent. volv.

Chemistry (Queensland).

1. How are hydrochloric and nitric acids prepared? Give equations and B.P. tests.

2. How is iodide of potassium prepared? Give equations, and mention probable impurities.

3. How would you estimate the amount of morphine in opium?

4. What are the atomic weights of bismuth, sulphur, lead, iron, and mercury? Explain what is meant by the term and give quantivalence of these elements.

5. What is iodoform? How is it prepared, and in what instance is its preparation employed as a test?

6. What is organic chemistry? Briefly describe an organic analysis.

These papers indicate that the standard of qualification is by no means trivial, and compares well with our own standard of ten years ago.

From all these facts the impartial observer will admit that the pharmacy relations of Greater Britain are conditions to be proud of rather than ashamed. Moreover, the tendency everywhere, as far as our information goes, is to increase the standard of qualification. But as each colony is an independent factor, so have we independent standards, and it is claimed, even by colonists, that local standards must be levelled up before an Imperial standard is formulated. In that spirit Ontario and Quebec have brought their standards as near uniformity as possible, and the Australasian colonies are working in the same direction. Federation of these colonies may take place in the near future, and equalisation of pharmaceutical qualifications will accompany it. The consideration of what can be done by home authorities to promote Imperial reciprocity we must reserve for another article, as already this one has exceeded our usual limits.

PHYSICIANS IN PALESTINE.

Among the alleged "Sayings of Jesus," recently discovered on a papyrus-leaf by Messrs. Grenfell and Hunt at Oxyrhynchus, in Egypt, one is found to read as follows:—"Jesus saith, a prophet is not acceptable in his own country, neither doth a physician work cures upon them that know him." This seems to be an expansion of the proverb quoted in the Gospels that a prophet has no honour in his own country. The readiness of many people to accept a strange medicine seems to have been a characteristic of the people of Palestine 1,900 years ago, and it is far from dead yet.

STILL CONSIDERING.

The Chairman of the Parliamentary Bills Committee of the British Medical Association has asked the attention of the Lord President of the Privy Council to the fact that the *Dublin Gazette* of June 18 contained an order from the P y Council providing that, in accordance with a resolu n passed by the Royal College of Physicians in Ireland, r. bolic acid is now a poison, in accordance with the provi s of the "Act to Regulate the Sale of Poisons in Irela ." He stated that the Parliamentary Bills Committee woul e glad to learn whether they might anticipate a similar o. vision being shortly made in respect to England and S t. land. A reply has been received to this communicati o the effect that a Bill dealing with the subject is at pr t under the consideration of the Government, and that, p l. ing its introduction in Parliament, it is not propose o include carbolic acid in the schedule to the Pharmacy t, 1868. The Government must find this subject a very t h one. They have been giving an answer similar to th n reference to carbolic acid certainly since 1882.

WHAT IT COSTS TO SHIP TO JOHANNESBURG.

There are now several railways in the Transvaal, l t mostly with Dutch and German capital, and carried on a company that is at least nominally Dutch. The rate f freight on this railway system are probably the highest i e world, and the bad management of the company is o of the greatest hindrances to the commercial developme of the country. The Johannesburg Industrial Commissio re now about to make a fresh effort to get the railway ff reduced, and it is to be hoped that they will succeed. re are a few instances of the freight-charges of the Tran al Railway Company:—Five casks of table vinegar re bought in England at a cost of 4*l.* 17*s.* 6*d.* The Lo n shipping charges and freight to East London were 2*l.* 3*s* .; colonial duty payable at East London, 14*s.* 10*l.*; Tran al duty, payable at Johannesburg, 18*l.* 15*s.*; railway fr t from East London to Johannesburg, 5*l.* 18*s.*; t l, 32*l.* 8*s.* 10*d.* Ten boxes of soap cost in England 28*l.* 16*s* .; landed in Johannesburg, 69*l.* 10*s.* 10*d.*! The interme y costs were: Home charges and freight, 5*l.* 19*s.* 8*l.*; col al duty, 1*l.* 10*s.* 5*d.*; coast charges, 1*l.* 1*s.* 3*d.*; dut at Johannesburg, 13*l.* 11*s.* 6*d.*; railage from East Londo to Johannesburg, 18*l.* 11*s.* 3*d.* If, notwithstanding such x. cessive charges, Johannesburg is one of our principal ma ts now, what would it not be if merchandise could be con ed there at a reasonable cost?

AN IDEAL PHARMACY.

All good pharmacists have their thoughts about the al business which they would like, and they generally e re round a good dispensing connection, and plenty of it at st. class prices. The nearest approach to that in exis ce which we have heard of for some time is described a correspondent of the *Bulletin of Pharmacy*. It exis in Chicago, on the sixth floor of the Reliance building nd Mr. David Klapansky is the manager of it. The buildi is full of doctors' consulting-rooms, all of which are conn ed with the pharmacy by telephone, so that the doctors ak their prescriptions direct, and the medicines are deliver to the patients before they leave the consulting-rooms. he pharmacy is an attractive one, the decorations being disti ly Japanese—but this is what the *B. O. P.* says of it:—

The hangings and furnishings are in bamboo and maho ny and the colourings and designs are genuine Japanes rt, and were it not for the ornamental glass mortar ov he entrance-door, one would imagine himself in a Jap se boudoir rather than in a prosaic place of business. he main reception-room, long and narrow, is completely sh off from the dispensing department by a handsome scre in bamboo and mahogany, with mirrors and shelves for ic. *a-brac.* The walls of the room are practically covered ith artistic fixtures, including cases for proprietary ar les toilet specialities, &c., which are entirely concealed by nel doors with cut-glass mirrors; in the centre hangs a Jap ese lantern, lit by electricity. A glance over the dispe ng

shes indicates that the facilities for prescription-work are unexelled. There are complete lines of the products of the most reliable manufacturers. The laboratory is 30 feet long by 5 feet wide. In the centre stands a closed cabinet containing poisons, with artistic labels of cross-bones and skull.

To make this pharmacy strictly ideal, all that would be necessary, we suppose, would be an elimination of the contents of the dispensing-shelves and of the cases in the front of the counter. But, as it is, the Reliance Pharmacy seems to us a dream of beauty, and it must be nice to be in telephonic connection with fifty or sixty medical men.

"HYDROCHLORIDE" OR "HYDROCHLORATE."

In the Winter number of THE CHEMIST AND DRUGGIST Mr. Edward W. Williams, F.C.S., of Orange, N.J., pointed out that the use of such words as "hydrochlorate" in connection with alkaloids is not sanctioned by the rules of nomenclature, and we believe that this opinion is generally accepted by careful chemists in this country, the "ide" termination, as in "hydrochloride," being preferred. Since then Mr. Williams has obtained the opinions of leading American chemists about the matter, and they are practically unanimous in favour of the "ide" termination, although some side considerations are introduced. Professor Ira Remsen says that "hydrochloride" and "hydrochlorate" will both continue to be used. The former, we may add, is used in the Chemical Society's *Journal*, which is punctilious in regard to nomenclature; the latter in the British Pharmacopœia.

GERMAN "EXPERTS" IN CHINA.

The German Trade Commission to Eastern Asia which left for China this spring were accompanied on their tour in that country by Dr. Knappe, the German Consul at Canton, who possesses an unusual knowledge of commercial and industrial matters in China. The cost of the expedition is paid by the German Government, but German manufacturers are by no means unanimous in approving the scheme. Certain chemical firms especially have offered strong opposition to it. The coal-tar colour people argue that they know already more about the trade in aniline-dyes in China and Japan than any commission of experts can teach them. United States Consul Sawter, of Glauchau, in Germany, thinks that the expedition will result in great gains to German trade and industry, and urges his Government to send out a similar mission. Incidentally he tells his countrymen that "much of the success of the English manufacturers in extending their foreign trade has been owing to their readiness to meet even the most trifling conditions which buyers impose as to style and character of the goods desired." This is, indeed, a new light in which we see ourselves. Hitherto the criticism has been all the other way.

EXTENSION OF BOTANICAL KNOWLEDGE.

We have in previous years given some original notes from the books of pupils attending a series of lectures on economic botany. A further supply of gems is furnished by the students of the present summer classes. The following are selected:—"Cajuput oil is used as a stimulant, and also for bad wounds by outward application. It is imported to this country in empty wine-bottles." "Gum ammoniacum is furnished by *Dorema ammoniacum*, a tall-growing plant with very soft stem. The gum exudes spontaneously through the holes bored by insects in tears." "Cochineal.—The insects are placed on the plants in August, and left to feed for four months, after which time they have become carmine inside." "*Mucuna pruriens*.—The hairs are called cow-itch. They once had a reputation as a vermifuge; taken internally they stick into the poor beggars." "From Paraguay tea an effusion is obtained." With reference to the use of gum euphorbium, from *Euphorbia resinifera*, and the juice of other species of *Euphorbia* for the preparation of an anti-corrosion paint for ships' bottoms, it was stated "Euphorbia-juice keeps away barnacles and other sea-urchins." As an illustration of how scientific names may be written, we quote the following:—*Tiliodendron & flaxuosum*, for *Eriodendron anfractuosum*; *Citrus orangeum* for *Citrus aurantium*.

FOREIGN TRADE AND FOREIGN TONGUES.

Almost weekly we are told by our Consuls that the expansion of foreign commerce in neutral markets is in great measure due to the existence of numerous foreign houses in all those markets, whereas British firms are comparatively few in number. This is particularly the case in South and Central America, and it has its origin partly in the facility with which Germans acquire a smattering of the language of the country (they rarely learn it thoroughly), and in their habit of de-nationalising themselves with a rapidity that, to the Britisher, seems positively indecent. When the German gets settled, in South America or elsewhere, and begins to flourish, he naturally prefers to buy goods in his own country, instead of in Britain, especially because he knows the sources of supply, and also (having in all probability spent a year or two in a British office or factory) the prices charged by British exporters. In this way much business is lost to this country. How backward Englishmen are in comparison with foreigners in a working knowledge of modern languages is shown by a reference to the register of the London Chamber of Commerce Employment Department. The June number of the journal of the Chamber contains a list of "situations wanted," in which all the names of "foreign-born" applicants are asterisked, just as the druggist puts "Angl. opt." and "Exot." in his price-list. Thirteen "junior clerks" want places. Two of these bear the foreign Mark of the Beast. They, of course, know English, German, and French. Of the eleven Britishers, three have a knowledge of French, or French and German, which shows a noteworthy increase in the interest in foreign languages among the rising generation. About one in three out of British applicants for positions as shorthand or shipping clerks, and as bookkeeper, knows some foreign language. But when we come to "foreign correspondents," we find that out of fifty-two applicants only seven are British-born. These mostly affect the French, Spanish, and Portuguese languages. The German scholar, it seems, is exclusively grown in the Fatherland. And yet the Britisher, when he gives his mind to the work, is really an excellent linguist, quite on a par with the Slav, and much superior to the German. But how many of the forty-seven foreigners who now want situations in this country will, ten years hence, be established as merchants in Africa, or Asia, or America, cultivating trade with their native land?

NEW SOUTH WALES DENTISTS.—The N.S.W. dentists have a Bill for the better organisation of their craft before the Parliament of the colony. Last Session the Bill passed the Legislative Council, and went down to the Assembly to be debated there. But Parliament was prorogued before the Assembly could deal with the Bill, and now the Speaker of the Council has requested his brother of the other House to proceed with the measure this Session.

WE hear that Idris & Co. (Limited) have purchased an estate in Wales, which includes the summit of Cader Idris mountain and the celebrated Llyn-cau lake and valley, with farms near Tal-y-Llyn lake. This is a unique property, Llyn-cau lake being a celebrated trout lake, just beneath the rocky summit of Cader, of great depth, supplied by inexhaustible springs which pour out of the lake along Nant-y-gader, forming several lovely waterfalls on the way to Tal-y-Llyn lake. What do the company intend doing with it? It is to be hoped that nothing will be done to spoil the natural beauty of the charming district.

The Belfast Coroner and Prescribing by Chemists.

THE Belfast Coroner (Mr. E. S. Finnigan) seems to be a perfect bloodhound for tracking down the prescribing chemist. The report of an inquest recently held by him, and briefly reported in our Irish News of this and last week, shows an animus which would hardly be justified if the practice of prescribing by persons other than duly-qualified medical men were a criminal offence, which, it may surprise Mr. Finnigan to know, it is not.

A man named Minnis committed suicide on July 19 by cutting his throat with a razor. According to the widow's evidence the deceased had, some six weeks previously, obtained a bottle of medicine from Mr. James Thompson, chemist, Peter's Hill. The connection between this allegation and the suicide may have been apparent to the Coroner, but it can hardly have been very obvious to anyone else. The Coroner, however, made it the central point of his inquiry. He had Mr. Thompson before him, and adjourned the inquest so that the chemist might produce his prescription-books. At the adjourned hearing Mr. Thompson's conduct as a prescriber completely supplanted the original object of the inquest. Mr. Harper, solicitor, represented Mr. Thompson, and first objected to produce the prescription-book. He said it would be a most disastrous position to place a chemist in to make him come into court with books containing the names of different individuals and their prescriptions. That all prescriptions in the names of parties who had received them should be placed before a jury, showing the ailments in connection with every family and every individual, would be to render it impossible that anyone seeking a prescription would go to a chemist at all. He submitted that in the case of a man cutting his throat it could not be shown that a chemist had any connection with the cause of death, as the instrument used would not be such as Mr. Thompson would be selling. Unless those books were brought forward by the direction of a competent Court, he would not warrant their being produced. The Coroner said Mr. Thompson was only wanted to produce whatever book contained an entry of the prescription in regard to Minnis. If Mr. Thompson would swear there was no prescription that would end the matter. Mr. Thompson said he would swear positively that there was no entry in his books in regard of the deceased. This did not by any means end the matter, however. The Coroner questioned Mr. Thompson as to his general practice, until the solicitor again interposed, and submitted that the witness should not answer the questions in regard to his general business during an inquiry concerning the death of a man who had cut his own throat. The Coroner said his object was to see if the witness was a proper man to prescribe, and to ascertain what was the general practice of the witness, so as to apply it to that particular case. He then put questions as to a previous case, in which he intimated a jury had condemned Mr. Thompson's practice. The widow was called, and said her husband did get medicine from Mr. Thompson's, and a doctor gave it as his opinion that no person should prescribe who was not properly qualified. The Coroner, in summing up, said it was of the utmost importance to the public that those to whom they went for medical advice or surgical treatment should be men qualified to give that advice or treatment. If men who had no qualification were permitted to set up as qualified men and to prescribe for the public the interest of the latter must suffer. Medical men had to travel a long and stiff road towards their profession at great expense in order that they might be enabled legally to practise their profession. If others were allowed to practise who had undergone neither examinations nor expense the former would be placed at a great disadvantage. It was notorious in Belfast that persons with no qualification were doing the work of medical men, and there were a hundred young struggling medical men in their city. He hoped that the Pharmaceutical Society would not only in the interests of the honourable members of their Society, but in the public interests, endeavour to put a stop to the practice to which he had referred. Mr. Thompson's practice had been condemned on a former occasion before that Court, and in the public interests he trusted the j would repeat the condemnation. If so he would place depositions in the case before them, and ask them to t their powers in force. The evidence showed that no crim charge lay against Mr. Thompson, but they could cons r whether he was otherwise to blame. As Mr. Thompson H sworn there was no entry in his books of any prescrip o from a medical man for the deceased man Minnis, there no need for the production of Mr. Thompson's books so r as the real point in the present inquiry was concerned, t, therefore, there was no need for him (the Coroner) o exercise his powers to compel the production of the bo which he undoubtedly would have done except for Thompson's admission. After a few minutes' deliberat the jury returned a verdict to the effect that Minnis committed suicide by cutting his throat with a razor wl t temporarily insane, and that there was not sufficient evid e to show that Mr. Thompson had prescribed for him.

"Sublime Salad Oil."

ON Thursday, at North London Police Court, before r D'Eyncourt, Mr. Ebenezer Tickner, of 61 Newin n Green, was summoned by the Vestry of Islington r selling as olive oil an article which was found on anal is to be cotton-seed oil. Dr. Whyte appeared for the Ve r, and Mr. Alexander Thomson defended.

Alice Clark, a young lady employed by the Vestry u r the Sale of Food and Drugs Act, said that on July 3 e went to the shop of the defendant, and asked for half a t of olive oil. The defendant said he had none on draut, but he had it in bottles, at 5½*d.* each. She saw the de dant himself, and, when she found she could not get i n draught, she went outside, and took the instructions of e inspector. He told her to return and ask for a bottl f olive oil at 5½*d.* The bottle was handed to her by e defendant, and then the inspector stepped in, and compl d the purchase. The analyst's certificate showed that e article was not olive oil at all, but cotton-seed oil.

Mr. Thomson: I admit that this is cotton-seed oil, d that it is used as salad oil and for the same purpose as e oil.

Miss Clark, in reply to the Magistrate, said the defen t did not call her attention to the label "Sublime salad " when he handed it to her as olive oil. She did not rea e wrapper, and had the bottle contained vinegar she sh d have taken it away all the same after asking for olive oi

Mr. Thomson argued that salad oil included cotton-s d, olive, and other oils. Salad oil would be oil to be d with salad, and not necessarily olive oil. Moreover, he d, they were summoned for selling this as a drug, and n s a food; and one would scarcely go to a small general p for a drug. This summons was bad, because salad oil i t within the definition of a drug. It was not "a medicin or internal or external use." Would the prosecution co d that salad oil came under this head?

Dr. Whyte: Certainly. Olive oil is not only used a dressing for salad, but is also had recourse to in the ca of burns.

The Magistrate said he thought this article would ne under the definition of food.

Dr. Whyte: Under the joint definition of both foo d drug.

Mr. Thomson: But you would surely go to a chemist d druggist for a drug?

The Magistrate thought the summons should be amen d.

Mr. Thomson: I would like to take your decision o is summons, and they can summon us again if they l se under another section. Your Worship will remember t in the baking-powder case it was held that baking-powde as not a food.

Dr. Whyte: I say that olive oil is used internally d externally. You will remember the glycerine case.

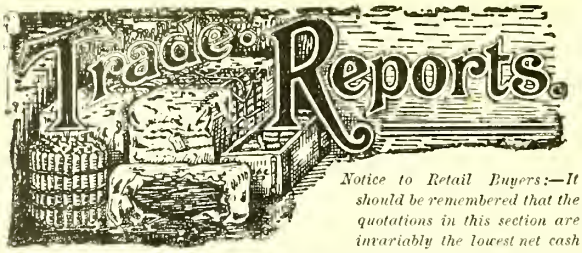
The Magistrate: If you are going to fight this cas t, you had better call expert evidence, and not depend on these short statements of opinion.

The case was adjourned.

Specific Gravities of British Pharmacopœia Liquids,

The subjoined Table of Figures is a Record of actual Weighings made by Mr. F. Dietze, Berlin, expressly for THE CHEMIST AND DRUGGIST.

—	15° C.	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°
Acid. aceticum	1·044	1·046	1·046	1·045	1·045	1·044	1·044	1·043	1·043	1·042	1·042	1·041	1·041	1·040	1·040	1·039	1·039	1·038	1·037	1·037	1·036	1·036
„ „ glaciale ..	1·058	1·063	1·062	1·061	1·060	1·059	1·058	1·057	1·056	1·055	1·054	1·053	1·052	1·051	1·050	1·050	1·049	1·048	1·047	1·046	1·045	1·044
„ carbolic. liquefact. ..	1·064-1·067	—	—	—	1·069	1·067	1·066	1·065	1·064	1·064	1·063	1·062	1·061	1·061	1·060	1·059	1·059	1·058	1·057	1·057	1·056	1·055
„ hydrobromic. dilut. ..	1·077	1·079	1·078	1·078	1·078	1·077	1·077	1·077	1·076	1·076	1·076	1·075	1·075	1·075	1·074	1·074	1·073	1·073	1·073	1·072	1·072	1·072
„ hydrochloricum ..	1·160	1·163	1·162	1·162	1·161	1·161	1·160	1·160	1·159	1·159	1·158	1·158	1·157	1·157	1·156	1·156	1·155	1·154	1·154	1·153	1·153	1·152
„ „ dilut.	1·052	1·053	1·053	1·053	1·052	1·052	1·052	1·052	1·052	1·051	1·051	1·051	1·051	1·050	1·050	1·050	1·050	1·049	1·049	1·049	1·049	1·048
„ lacticum	1·210	1·213	1·213	1·212	1·211	1·211	1·210	1·210	1·209	1·208	1·208	1·207	1·207	1·206	1·205	1·205	1·204	1·203	1·203	1·202	1·201	·201
„ nitric. dilut.	1·101	1·103	1·103	1·102	1·102	1·101	1·101	1·101	1·100	1·100	1·099	1·099	1·098	1·098	1·097	1·097	1·097	1·096	1·096	1·095	1·095	1·094
„ phosphoric. dilut. ..	1·080	1·081	1·081	1·081	1·081	1·080	1·080	1·080	1·080	1·079	1·079	1·079	1·078	1·078	1·078	1·078	1·077	1·077	1·077	1·077	1·076	1·076
„ sulphuricum.	1·843	1·848	1·847	1·846	1·845	1·844	1·843	1·842	1·841	1·840	1·839	1·838	1·837	1·835	1·834	1·833	1·832	1·831	1·830	1·828	1·827	1·12
„ „ dilut. ..	1·094	1·096	1·096	1·095	1·095	1·094	1·094	1·094	1·093	1·093	6·092	1·092	1·091	1·091	1·090	1·090	1·089	1·089	1·088	1·088	1·088	1·087
Æther. aceticus	0·900	0·904	0·904	0·903	0·902	0·901	0·900	0·899	0·898	0·898	0·897	0·896	0·895	0·894	0·894	0·893	0·892	0·891	0·890	0·890	0·889	0·888
„ purus	0·720	0·725	0·724	0·723	0·722	0·721	0·720	0·719	0·718	0·717	0·716	0·715	0·713	0·712	0·711	0·710	0·709	0·708	0·706	0·705	0·704	0·703
Alcohol. amylicum	0·818	0·822	0·821	0·820	0·819	0·819	0·818	0·817	0·817	0·816	0·815	0·815	0·814	0·813	0·813	0·812	0·811	0·810	0·809	0·808	0·808	0·807
„ ethylicum	0·797-0·800	0·802	0·801	0·800	0·799	0·798	0·798	0·797	0·796	0·795	0·794	0·793	0·793	0·792	0·791	0·790	0·789	0·788	0·788	0·787	0·786	0·785
Amyl nitris	0·880	0·884	0·883	0·883	0·882	0·881	0·880	0·879	0·877	0·876	0·875	0·874	0·873	0·871	0·870	0·869	0·868	0·866	0·865	0·864	0·863	0·862
Chloroformum	1·497	1·505	1·504	1·502	1·500	1·499	1·497	1·495	1·493	1·491	1·489	1·487	1·485	1·483	1·482	1·480	1·478	1·476	1·474	1·472	1·470	1·469
Creosotum	1·071	1·075	1·074	1·073	1·072	1·072	1·071	1·070	1·069	1·068	1·067	1·066	1·065	1·064	1·063	1·062	1·061	1·061	1·060	1·059	1·058	1·057
Glycerinum	1·250	1·253	1·252	1·252	1·251	1·250	1·250	1·249	1·249	1·248	1·248	1·247	1·247	1·246	1·245	1·245	1·244	1·244	1·243	1·243	1·242	1·242
Liquor ammoniæ	0·959	0·960	0·960	0·960	0·960	0·959	0·959	0·959	0·958	0·958	0·958	0·958	0·957	0·957	0·957	0·957	0·956	0·956	0·956	0·955	0·955	0·955
„ ammonii acetatis ..	1·022	1·023	1·023	1·023	1·023	1·022	1·022	1·022	1·022	1·021	1·021	1·021	1·021	1·021	1·020	1·020	1·020	1·020	1·019	1·019	1·019	1·019
„ ferri acetatis ..	1·031	1·032	1·032	1·032	1·032	1·031	1·031	1·031	1·031	1·031	1·030	1·030	1·030	1·030	1·029	1·029	1·029	1·029	1·029	1·028	1·028	1·028
„ „ dialysatus ..	1·047	1·048	1·048	1·048	1·047	1·047	1·047	1·047	1·047	1·046	1·046	1·046	1·046	1·046	1·045	1·045	1·045	1·045	1·044	1·044	1·044	1·044
„ „ perchlorid. fort.	1·420	1·424	1·423	1·423	1·422	1·421	1·420	1·420	1·419	1·418	1·417	1·417	1·416	1·415	1·414	1·414	1·413	1·412	1·411	1·411	1·410	1·409
„ „ persulphat. ..	1·441	1·444	1·443	1·443	1·442	1·442	1·441	1·440	1·440	1·439	1·438	1·438	1·437	1·437	1·436	1·435	1·435	1·434	1·433	1·433	1·432	1·431
„ plumb. subacetatis..	1·275	1·277	1·277	1·276	1·276	1·275	1·275	1·275	1·274	1·274	1·273	1·273	1·272	1·272	1·271	1·271	1·270	1·270	1·269	1·269	1·269	1·268
„ potassæ	1·058	1·059	1·059	1·059	1·058	1·058	1·058	1·058	1·058	1·057	1·057	1·057	1·057	1·056	1·056	1·056	1·056	1·056	1·055	1·055	1·005	1·055
„ sodæ	1·047	1·048	1·048	1·048	1·048	1·047	1·047	1·047	1·047	1·046	1·046	1·046	1·046	1·045	1·045	1·045	1·045	1·044	1·044	1·044	1·043	1·043
Oleum sinapis	1·015-1·020	1·022	1·021	1·020	1·020	1·019	1·018	1·017	1·016	1·016	1·015	1·014	1·013	1·012	1·011	1·010	1·010	1·009	1·008	1·007	1·006	1·006
Petroleum spirit	0·670-0·700	0·690	0·689	0·688	0·687	0·686	0·685	0·684	0·683	0·683	0·682	0·681	0·680	0·679	0·678	0·677	0·676	0·674	0·673	0·672	0·671	0·669
Spiritus ætheris	0·809	0·813	0·812	0·811	0·811	0·810	0·809	0·808	0·807	0·806	0·805	0·805	0·804	0·803	0·802	0·801	0·801	0·800	0·799	0·798	0·797	0·797
„ „ nitrosi ..	0·840-0·845	0·847	0·846	0·845	0·844	0·844	0·843	0·842	0·849	0·481	0·480	0·839	0·838	0·837	0·836	0·835	0·834	0·833	0·832	0·831	0·830	0·829
„ camphoræ	0·850	0·853	0·852	0·852	0·851	0·851	0·850	0·849	0·849	0·848	0·847	0·847	0·846	0·846	0·845	0·844	0·844	0·843	0·842	0·842	0·841	0·841
„ rectificatus ..	0·838	0·842	0·841	0·840	0·840	0·839	0·838	0·837	0·836	0·836	0·835	0·834	0·833	0·832	0·832	0·831	0·830	0·829	0·828	0·827	0·827	0·826
„ tenuior	0·920	0·923	0·923	0·922	0·921	0·921	0·920	0·919	0·918	0·918	0·917	0·916	0·916	0·915	0·914	0·914	0·913	0·913	0·912	0·911	0·910	0·910
Syrupus	1·330	1·333	1·333	1·332	1·332	1·331	1·330	1·330	1·329	1·329	1·328	1·328	1·327	1·327	1·326	1·325	1·325	1·324	1·324	1·323	1·323	1·322



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes. Further points which should be borne in mind are that the distributor generally has to bear the bulk of the freight-charges on the goods on their way from the producer to the retailer, and that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., *August* 5.

BUSINESS in the drug and chemical markets has been rather more active than usual at this time of the year, and there are several alterations of interest to report. In chemicals citric and tartaric acids are extremely firm and difficult to obtain. Glycerin shows no alteration, but quinine has a decidedly firmer tendency. Cream of tartar fluctuating. Citrate of iron and ammonia (Howards') has been reduced. There is a fairly firm market for carbolic acid. Caustic soda is very firm. Recovered sulphur, bleaching-powder, and soda crystals are well held. Lead-salts steady. Copperas extremely well maintained. Sulphate of copper somewhat easier, and brown acetate of lime tending lower. Cyanide of potassium steady, with a fair demand. In the drug market there has been a pronounced decline in new Belgian chamomiles. Camphor is fairly steady on the spot. Good Calomba root scarce. Insect-flowers tending easier. Castor oil scarce, and well held. Russian anise is firmer, and for star-anise higher prices are asked. Gentian-root lower, owing to arrivals. In menthol there has been a good business at rising prices. Good myrrh is scarce. Jalap steady. Gum acacia fairly firmly held. There has been a big business at advanced prices in star-anise oil. Japanese oil of peppermint is also firmer, but American remains neglected. Oil of spike lavender is tending higher, while thyme is rather easier. English caraway and sandalwood oil have been reduced by some makers. Oil of lemon firm, and fairly active. Poppy-heads are steady, and there has been a fair business in tragacanth and beeswax. In drysalteries, spices, &c., we have to report a steady market for shellac, and an improved demand for cutch. African ginger is easier. Cloves firm. Black and white pepper rather firmer. Japan wax well held. Linseed oil fully 6*d*. dearer. Rape and cotton-seed oil very firm for crude and refined. Cocoa-nut oil steady, with an upward tendency. Opium and olive oils unchanged. Turpentine easier. Petroleum very quiet.

Sicilian Essential Oils.

The position of the fruit-growers in Sicily has for some time been the cause of great anxiety to the Italian Government, the once lucrative industry being now so depressed that the proprietors, unable properly to cultivate their gardens, have appealed to the Government for assistance. The establishment in Sicily of factories for the manufacture of citrate of lime and citric acid is to be encouraged by the remission of the Italian income-tax for a period of eight years, and the export of adulterated essential oils is to be entirely prohibited unless the packages and bills of lading are clearly marked with the nature and percentage of the adulterant. In view of the fact that this adulteration has been systematically carried on by all but one or two firms, this chan may cause considerable inconvenience to the shippin interest. The penalty proposed is a fine of 100f. to 50 for a first offence, and one month's imprisonment for second offence. The new regulations have received t sanction of the Italian Chamber of Deputies and also of t Senate. They may, therefore, become law within the cour of a few days. Similar regulations with regard to labelli are to be applied to sumach, which is often adulterated to t extent of 60 p.c. Immediately upon the project becomi known, the local oil and sumach markets became ve active, and no doubt the largest possible shipments will made before the regulations come into force.

The following is the text of the Bill:—

Art. 1.—According to Articles 295 and 322 of the Penal Co essence of bergamot and other kinds of *citrus* essence will not considered genuine when they contain turpentine or other ad terants, nor will sumach be considered genuine when mix with foreign matter.

Art. 2.—Essences and sumach which are not genuine must o be sold with the adulterant clearly declared. The nature of t adulterant must be stated on the packages which conta essences or sumach, on the bills of lading and invoices, and record kept in the books of the shipping firm. The neglect these regulations will be deemed a proof that the seller has plac adulterated essences on the market as genuine.

Art. 3.—Anyone selling sumach, essence of bergamot, or oth essences of the citrus-fruit must supply samples for analy whenever asked to do so by the Prefect, Sub-Prefect, or Synd who may also direct where the sample is to be taken.

Art. 4.—The Government, agricultural stations, Governme agricultural chemical laboratories, and municipal chemical la ratories are obliged to analyse essences and sumach suspected be adulterated on payment of a moderate fee, to be fixed b schedule to the present law. Should such essences or sumach presented by private individuals, and the analysis show them be not genuine, the above-mentioned institutions must at o notify the proper authority. The fee for drawing samples essences and sumach will be subject to regulation.

Art. 5.—The convictions will be published by the Governme at the expense of the defaulters, in the local papers, and a co of the conviction will be publicly posted at the Chamber Commerce of the Commune and Agricultural Committee of t Province, and on the doors of the works, offices, or residence the offenders, and (in the case of essence or sumach export from Italy) also on the door of the Italian Consulates of the to to which the merchandise is sent. The conviction will published in one of the principal papers of the district.

Art. 6.—The Government are authorised to issue regulatio for the carrying out of the present law. The Government also authorised to issue regulations for the prevention of t adulteration of essences and sumach.

Iodine from Kelp.

We have on several occasions mentioned the progress the French Société Co-operative de Pharmacie for the man facture of iodine from kelp, and of iodine sal The shareholders of the company, which ha nominal capital of 350,000f., held their gene meeting on July 12, when the result of t trading up to May 31 was made known. So far 89.48 worth of goods has been sold. The unsold stock is valu at 36,179f., and the total output at 125.659f. In manufa turing this quantity 13,180f. have been spent on the purcha of soda-salts and seaweed, 26,796f. on chemicals, coal, a freight, and 14,455f. on wages; a total of 114,431f., leavi a gross profit of 11,228f. This gross profit is, however, m than swallowed up by the cost of manufacture and t working expenses, which are as follows:—At the works Lampaul, in the department of Finisterre, 16,689f.; at Par 14,193f. The total loss on the trading up to the present h been 16,953f.

American Peppermint Oil.

In addition to the reports on American peppermint prospects which we have already published, we have eceived the following information from Mr. D. Cushman, of Three Rivers, Mich.:—"L autumn and this spring the rainfall has be heavier than usual, and this has prevented the farmers fr ploughing as much land for setting-out peppermint as th intended. During the winter many fields of mint w inundated more than once, and alternate freezing and tha ing killed the roots over large areas, and weakened them the remaining ones, so that they now only bear a small a weedy growth of herb. These conditions did not affect t

or better-drained fields, from which most growers le to get good roots to set the land they had pre- but this took their best roots, and will materially he yield from old fields. From the best information tain, there is a decrease of from one-fourth to one- acreage of new-set mint as compared with last year. son has been quite as favourable as last year for the of the crop, and fields set with vigorous plants are well, but the average yield per acre will be less than r, and the total amount of oil fully one-third less 1896."

Hamburg correspondent wires on Thursday after- *Star-anise oil* is very much firmer, although it is difficult to obtain definite prices. *Japan wax* is also firmer, at 76m. per 100 kilos., and a steadier feeling in *Camphor*, 2.10m. being the quotation for bells.

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ew York correspondent telegraphs on Thursday that *Wintergreen oil* is advancing, $1.10 per lb. being the current quotation. *Gum chicle* firm at 26c. per lb. The stocks in America are the imports small. *Wahoo bark* of root is scarce r lb. Thin-skinned *Cherry bark* is also scarce at c. per lb. *Californian* honey of superior quality is 6½c. per lb., and has an advancing tendency. To- e for *Petroleum* is $5.75 for barrels.

(Carbolic).—Somewhat firmer. Crystals, 39° to *d.* to 7½*d.*; 34° to 35° C., 6⅝*d.* to 6¾*d.* per lb. *Crude* er cent., offers at 2*s.*; 75 per cent. at 2*s.* 2½*d.* to er gallon. *Cresylic*, 95 per cent., at 1*s.* 1*d.* per he output during the hot weather is not large, and e been several orders in the market recently. The overnment have placed a pretty big contract for this country.

(Citric).—The English manufacturers have not eir price, which remains at 1*s.* 2*d.* per lb. for B.P. There is very little in second-hand, and it is diffi- ain anything for immediate delivery. We under- act, that the makers are so full of orders that they veek bought a fair quantity of citric acid in the r resale. The hot weather has greatly stimu- sumption, and buyers must wait their turn for

(Tartaric) is in almost the same position as citric, he scarcity is not so pronounced. *English* B.P. is 1*s.* 2*d.* per lb., and foreign offers at 1*s.* 1*d.* to er lb. We understand that the deliveries of tric and tartaric acid from the factory in July er than they have been for any month for years

A remains scarce, especially for good qualities. eadily realise 30*s.* per cwt.

(Crude).—Quotations from the East are some- r, but in London the market remains very quiet. nts of camphor from Canton and Hong Kong to ent between January 1 and June 23 are as

	1897	1896	1895
	16,253	12,862	11,732 boxes
To the U.K. ...	—	749	5,989 „

ago a parcel of, it is said, 100 piculs *Formosa* d on the spot at 92*s.* 6*d.* per cwt., but there are her sellers at that figure. From the East the are nominally 90*s.* to 93*s.* per cwt., c.i.f., for d 102*s.* 6*d.* to 103*s.* per cwt., c.i.f., for *Japan*

les.—The new-crop *Belgian* flowers are rapidly n price, best quality being offered to-day at 38*s.* per cwt. for delivery as soon as available. prices are almost the lowest on record at the f the season.

Citrate of Iron and Ammonia.—The price of Howards' brand has been raised to 1*s.* 3*d.* per lb., and that of B.P. citrate of potassium to 1*s.* 2½*d.* per lb.

Cream of Tartar.—The market is uncertain at present. Best white *French* crystals are quoted at 77*s.* per cwt.; powder at 79*s.* to 81*s.* per cwt. on the spot.

Cumin-seeds.—Sales of good quality old *Maltese* seed are reported at 31*s.* per cwt. on the spot. The quality of this year's crop is said to be very poor. *Mogador* seed has been somewhat depressed on account of a failure in the Morocco trade, but appears to be looking up somewhat again. It is said that an offer of 17*s.* 6*d.* per cwt. was refused for a lot of 20 cwt. yesterday.

Cutch is much firmer. The market is said to be in a very sound position, and there have been inquiries for new crop. Shippers, however, are not willing to quote for forward delivery. On the spot, *MM* in slabs is quoted at 30*s.*; *Eagle* at 26*s.* 6*d.*; commoner brands at from 17*s.* 6*d.* down to 13*s.* per cwt.

Galls.—*Chinese* quiet, but steady, at 64*s.* per cwt.

Gentian.—Again easier. Good *French* root is now offering on the spot at 25*s.* per cwt., and at that price some business is reported, though holders ask 27*s.*

Glycerin.—Within the last fortnight a big business has been done in crude glycerin, the sales being probably the largest of any month this year. So far, however, the price of the double-distilled article has not been affected, and last week's quotations still hold good.

Gum Acacia.—So-called insoluble *Persian* gum is still in excellent demand. Some parcels of good sorts have changed hands at 19*s.*, and inferior at 13*s.* per cwt. Pale picked gum offers at 22*s.* to 23*s.* per cwt., reddish at 18*s.* to 19*s.* per cwt. In these varieties, however, no business has been done. The stock is rather small, and the market is well maintained. In *Soudan* sorts the market is quiet, with a small trade at from 55*s.* for common, up to 62*s.* 6*d.* per cwt. for good hard. Some *Ghezireh* gum has sold at the steady price of 40*s.* per cwt. A fair demand is reported for picked Trieste grain at 6*l.* 15*s.* per cwt. for good bright quality.

Insect-flowers.—The market is still declining and prices are more or less nominal, but no business has been transacted up to the present. The stock in Trieste at the end of June was 270 tons, the arrivals during the month having been 88, and the deliveries 38 tons.

Ipecacuanha.—About 20 bales of *Rio* root have been bought by a dealer at steady prices since the last auctions. There have been no arrivals.

Jalap remains quiet, but there is some disposition to ask a little more money—say, 5¼*d.* per lb. for good Vera Cruz.

Lycopodium.—Reports from Russia show a firmer market in consequence of large orders that have recently been received from America. There is, however, a fair stock of old crop, and the new harvest is about to be gathered.

Menthol is distinctly dearer this week. It is said that there is a shortage of at least 30 per cent. in the crop, but the general run of prices has been so low lately that the slightest excuse is enough to cause a sharp reaction. Within the past few days 6*s.* and 6*s.* 1½*d.* per lb. has been repeatedly paid for fair brands, and to-day *Kobayashi* has been sold at 6*s.* 2*d.* per lb. For shipment the quotations are from 5*s.* 10½*d.* to 6*s.* per lb., c.i.f. for September–October. We understand that some low-priced sales have been made by Hamburg, 5*s.* 11*d.* per lb, delivered Paris, being accepted in one instance by a dealer in that city.

Musk.—There has been rather more enquiry just lately, but at present no business has resulted. The article has been neglected for some time, and it is thought that ere long there will be a considerable improvement in the market.

Myrrh.—Good sorts are scarce and wanted; pickings and common kinds fairly plentiful and slow of sale.

Oil (Castor).—Very firmly held, at 32*s.* for firsts and 31*s.* for second pressings, French or Belgian oil, on the spot. For August-December delivery, 28*s.* to 29*s.*, f.o.b. Antwerp, is quoted.

Oils (Essential).—*Oil of cloves* remains weak. One of

the English distillers has now reduced his price for best to 2*s.* 2*d.*, thus bringing it in harmony with his competitors. He has also reduced *Oil of caraway* to 5*s.* per lb. *Oil of peach-kernels*: one of the English drawers has reduced his price to 8½*d.* per lb. Another English distiller has reduced his price for *Sandalwood oil* to 11*s.* 6*d.* per lb. One of the chief features of the drug-market this week has been the very large turnover at rising prices in *Star-anise* oil. It is said that between two and three hundred cases (containing ½ picul each) have changed hands on the spot. From 7*s.* 6*d.* up to 7*s.* 10½*d.* per lb. has been paid, and it is even reported that 8*s.* has been conceded in more than one instance. It is difficult to say at what price it will be possible to buy to-day. Probably 8*s.* would still be accepted. For shipment the quotation is 7*s.* 7½*d.* per lb., c.i.f., July-August and August-September. *Cassia oil* is unchanged in London at our last quotations, but the prices cabled from China are slightly firmer. *Lemongrass* steady at 2⅝*d.*, possibly 2½*d.* per oz. on the spot, and 2⅜*d.* per oz., c.i.f. terms. *Citronella oil* quiet. Fair quality in drums can be bought at 1*s.* 1½*d.* to 1*s.* 2*d.* per lb. on the spot, while for shipment there are sellers at 11⅝*d.* per lb., c.i.f., and probably buyers at 11¼*d.* per lb., c.i.f. *Oil of thyme* is reported to be tending lower owing to the excellent crop-prospects. For quality which recently sold at 2*s.* 6*d.* per lb. 2*s.* 3*d.* would probably be accepted now. On the other hand, it is said that there is likely to be an advance in the price of oil of *Spike lavender*. This oil is now being distilled. Instead of the heavy crop expected it is likely that the output will be rather below the average on account of the long drought, and the damage done by hail. *Otto of rose*: the new prices have not yet been fixed, but there are rumours that it is likely to show an advance on that of last season. Of 74,000*l.* worth of *Otto of rose* exported from Bulgaria last year, 28,000*l.* worth went to France, 15,500*l.* to Germany, 15,000*l.* to the United Kingdom, and 11,000*l.* to Turkey. *American oil of peppermint* has not improved. In fact, there is a seller of HGH at 6*s.* 5*d.* per lb. to-day, which shows a decline of 1*d.* on the last quotation. *Japanese oil of peppermint*, however, is firmer, 40-per-cent. oil being now quoted on the spot at 3*s.* 9*d.* to 3*s.* 10½*d.*; and *Dementholised* at 2*s.* 10½*d.* per lb. Business has been done in the last-named variety at that price, and also at 2*s.* 9*d.* per lb. For shipment the quotation for 40-per-cent. oil is 3*s.* 9*d.* to 4*s.*; and for *Dementholised* 3*s.* per lb., c.i.f. terms, August-September shipment. *Oil of lemon*, which had been rather neglected lately. Buyers appear to be inclined to take a turn for the better, and in some instances quotations have been advanced by 3*d.* per lb. Prices, however, still remain very low.

Opium.—In the market for Turkey opium there is no change to report, all varieties remaining very dull. The only business done this week appears to have been in *Manufacturing* opium. Quotations remain from 11*s.* 6*d.* to 13*s.* for good to fine *Soft-shipping*, 8*s.* 6*d.* to 10*s.* for second quality ditto, 8*s.* 6*d.* to 9*s.* 6*d.* for good to fine *Manufacturing*, and 7*s.* 6*d.* to 8*s.* 3*d.* for second *Druggists'*. *Persian* is more or less neglected at nominal prices—medium to fine 9*s.* 3*d.* to 10*s.*, and common 8*s.* to 9*s.* per lb.

Poppies.—*English* poppies are yielding a very good crop this year, and offer at about 10*s.* to 11*s.* per 1,000. For *Belgian* the price seems to be out of proportion high, as the dealers are said to have found much difficulty in obtaining supplies from the farmers at reasonable prices this year, because considerable quantities have been bought up, it is said, by a charitable organisation at higher rates than the dealers can give—viz., 15f. to 16f. per 1,000.

Potassium Cyanide.—There has been a considerable business in *Cyanide of potash* lately, mainly for shipment to the Transvaal and the States. Prices are firm, 10*d.* per lb., f.o.b., being the general quotation for 98 to 99 per cent. quality. Some time ago the manufacturers agreed not to sell below 9½*d.* per lb. f.o.b., and we believe that there are now few, if any, sellers at this figure. It is pointed out that the effect of the new American tariff which puts a proportionately higher duty on yellow prussiate of potash (the raw material for cyanide) than on cyanide itself, will probably be to kill the cyanide-making industry in the States, and transfer the output of the country (estimated at 600 tons a year) to Britain and Germany.

Quicksilver.—Dull of sale. First-hand is still quo at 7*l.* 5*s.*, but in second hand there are sellers at 7*l.* 2 The Russian quicksilver output in 1895 (of which offi figures are only just published) was 26,500 poods (equal about 12,700 bottles). In 1894 it was 11,965 poods (eq to about 5,750 bottles).

Quinine is very firm. The manufacturers have practic no quotations. In second hand 9½*d.* per oz. has been p for a parcel of good second-hand German quinine, and a week bids of 9*d.* and 9½*d.* per oz. have been refused. 9¼*d.* per oz. there would probably be sellers, but any considerable inquiry would send up the price.

Sarsaparilla.—Genuine grey *Jamaica* and *Lima* are firmly held at 1*s.* 4*d.* per lb.

Shellac.—A steady market, but without much busi The shipments from Calcutta for the month of July wer To the United Kingdom, 8,300 cwt.; to U.S.A., 1,700 c to the Continent, 1,900 cwt.; total 11,900 cwt., ag 4,000 cwt. in July, 1896. There are sellers of second *Ora* TN quality, at 61*s.* for October-December steamer shipm The c.i.f. price from Calcutta is also 61*s.* There has be a little more business in the speculative market, closing buyers of TN delivery at 61*s.* 6*d.*, and September at per cwt. On the spot *TN Orange* is quoted at 61*s.* to per cwt., and *A C Garnet* at 70*s.* to 71*s.* per cwt. We that a big American order at 71*s.* per cwt. for AC garne has been declined. *Button lac* is not offering to arrive.

Spices.—*Zanzibar cloves* remain quiet at steady r On the spot fair quality is quoted at 2 5/16*d.*, and for Oct December delivery 2 13/32*d.* is asked. *White pepper* has more active. Penang, on the spot, 4¼*d.*, with fair s July-September steamer at 4⅜*d.*; October-December, *d.* In Singapore pepper sales have been made at 5¼*d.* for September, and up to 5 11/32*d.* for September-Nov steamer. *Black Singapore pepper* is also firm, at h prices. It is stated that 200 tons have changed hand his week, at from 3 3/16*d.* to 3 9/32*d.* per lb., c.i.f. terms, accordi to shipment.

Star-anise.—Genuine *Chinese* seed has been sol at 87*s.* 6*d.* per cwt. on the spot recently, but to-day the m is firmer, 95*s.* being asked.

Tragacanth.—A very fair business is reported this in all varieties of tragacanth, sales having been ma at up to 13*l.* 10*s.* per cwt. for good pale *Druggists'* kind. It is said that the recent arrivals from the Persian Gu are old crop tragacanth, which ought to have come in t or three months ago. The new crop is not due until O ber or November.

Wax (Bees').—A moderate business is reported at her lower rates. A parcel of ordinary *Zanzibar* has ch ged hands at 5*l.* 15*s.* per cwt., and one of the holders of *Ara lian wax* has sold the whole of his supply on the b s of 6*l.* per cwt. for rather dark and grey mixed. Another ow ever, will sell below 6*l.* 5*s.* per cwt. *Mogador wax* is her neglected, and pretty high prices are asked—viz., per cwt. for fair quality. In *Jamaica bees' wax* no busi s is reported. Since the last auctions fair *Mozambique* h sold at 6*l.* 10*s.* per cwt.

Wax (Japan).—Steady on the spot, with small s of good squares at 41*s.* to 42*s.* per cwt. For arrival the qu tion is near at hand 37*s.* 6*d.*, and distant 35*s.* per cw c.i.f. There are only about two holders on the spot, and of these asks 44*s.* per cwt.

The Market in Heavy Chemicals.

The heavy-chemical market keeps a steady tone, a here is a slight improvement in the general demand to be rted. *Caustic soda* continues scarce, and the price is firm; fact, contracts can only be booked at an advance of fro s. 6*d.* to 5*s.* per ton on last year's figures. *Bleaching-p der* is also in rather better request. *Recovered sulphur* m tains a strong tone, and is more inquired for. Roll an ower, sulphur are steady. South Durham *Salt* is in heavy nand and large orders for the Indian market are on hand Price for common salt still remains at 9*s.* per ton, f.o Tees. Blocks, 15*s.* The Cheshire salt-trade is rather quie *Soda crystals* are firm and scarcer, the hot weather r ering

llisation difficult. Prices remain unchanged. *Ammonia alkali* is moving freely. *Saltcake* in demand at 20*s.* Brown *Acetate of lime* maintains an easy tendency. can, for prompt, is quoted 4*l.* 15*s.*; but for forward to an advance in the rates of freight, 5*s.* per ton more d. Irish stands at 4*l.* 17*s.* 6*d.* Green *Copperas* is very t unchanged rates, and makers of best Lancashire ell sold ahead. *Sulphate of copper* is lower at to 15*s.* 7*s.* 6*d.*, and only little business is being done; ool stands at 15*l.* 15*s.* and Anchor at 16*l.* 5*s.* *Borax* nes dull. *Sulphate of ammonia* quietly steady; Beck- 10*s.*; Beckton terms, 7*l.* 8*s.* 9*d.*; Hull and London, ; and Leith, 7*l.* 8*s.* 9*d.* to 7*l.* 10*s.* The exports from last week were rather heavy, and amounted to 828 tons. *ate of potash* is moving more freely. *Bichromates* sh and soda in moderate request. *Lead compounds* are and have an advancing tendency, owing to a harder lead. *Alum* and *Sulphate of alumina* are in steady *Barium* products meet with good inquiry, but no change to report in prices. Mineral *Carbonate*, lly of highest strengths, is very firm and scarce, and ance is looked for. *Cottonseed cakes* are firm at 6*d.* for best makes, and 3*l.* 10*s.* for seconds. *Oil* teady at 5*l.* 5*s.* to 5*l.* 7*s.* 6*d.*; Russian, 6*l.*; and an, 5*l.* 10*s.* *Linseed cakes* firm, 95-per-cent. pure, *Cream of tartar*: Powdered, 79*s.* to 81*s.*; crystals, 77*s.*

The Liverpool Drug-market.

Our Liverpool correspondent, writing on August 4, reports that the tone of business continues good, and several articles have proved their position materially. *Castor oil* is decided better since the holiday; good seconds Calcutta are low d for 3½*d.* per lb., notwithstanding large arrivals er *Arrister*; first-pressure French is held for 3¾*d.* to ½*d.*; second-pressure, 3¼*d.* per lb.; Madras, 3½*d.*; but the st-named grade is in very small supply; holders of stock ill only sell in small lots. *Canary-seed* is the turn better, nd others seem less anxious to realise their stocks, in view f the stronger reports from abroad; sales of good bright Turkish are reported at 24*s.*, and it is doubtful if more can e had at the price. *Quillaia-bark* continues steadily to improve position; the value of good bark is now firm at 9*l.* to 10*l.* per ton, with the prospect of better prices in the ear future. *Guinea grains* are still held for 30*s.* per cwt.—ne parcel offered at auction was thought likely to bring the market down, but it was withdrawn at the figure named. *Cream of tartar* fluctuates day by day about 1*s.* per cwt. above d below late rates, first white to-day being held rom 8. per cwt. for full strength. *Russian anise* offers at 5*s.* 6*d.* to 16*s.* per cwt., according to quality. *Sulphate of copper* or prompt delivery, is obtainable at 15*l.* to 15*l.* 5*s.* per ton with higher prices forward. *Gum acacia*: Soudan orts are in very small request, but very firmly held, advices rom Egypt continuing of a strong nature, stocks there being held for advanced rates. Medium gums are rather slow of sale, previous quotations being maintained, and buyers declined to pay prices asked. *African ginger* is flat, and sellers fair grade at 17*s.* per cwt. *Beeswax* is steady at prices t advised, and sales of Chilian have been made at 3*l.* 15*s.* to 7*l.* per cwt.

The Amsterdam Cinchona-market.

Our Amsterdam correspondent writes, under date of August that the auctions to be held on August 26 will consist 5,448 bags, and 654 cases Java bark. The stock in first hands, including the above quantity, consists of 2,163 cases Government, and 6,739 cases private, bark. The shipments from Java during June have been declared as follows (in Amsterdam lbs.):—

	1897	1896	1895	1894	1893
July ...	900,000	1,074,000	548,000	958,000	680,000
Jan.-July ...	4,308,000	5,050,000	4,316,000	4,701,000	4,740,000

It will be seen that the shipments are smaller than at the corresponding period of last year, whilst it must not be overlooked that in the meantime the stocks in Amsterdam have greatly diminished. The feeling is firm, and a good demand is looked for at the coming sales.

The Hamburg Drug-market.

Our Hamburg correspondent writes, on August 3:—"Business on our drug-market is comparatively quiet, and no great fluctuations can be recorded this week. *Anise-seed* very firm and dearer; 32m. per 100 kilos. asked to-day. *Balsam Peru* unchanged at 15m. per kilo.; *Balsam Tolu*, 5¾m. per kilo. *Camphor* (*refined*) is quiet; the present quotation is 250m. per 100 kilos., with only little business. *Cassia lignea* is steady; new crop demands 73m. to 74m. per 100 kilos. *Ergot of rye* is a shade firmer at 95m. to 100m. per 100 kilos. *Coca-leaves* remain quiet at 125m. per 100 kilos. *Menthol* is firm at 13½m. to 13¾m. per kilo. *Cod-liver oil* is still quiet at 68m. to 70m. for non-congealing new oil. *Seal oil* (sweet white) is quoted 47m. per 100 kilos. *Castor oil* is very scarce; as much as 66m. per 100 kilos. has been paid for French oil of first pressing for spot delivery, while 61m. is asked for floating shipments. *Linseed oil* is rapidly advancing, and sells to-day at 32m. per 100 kilos. *Rape oil* is very firm. *Cassia oil* remains quiet, but *Peppermint oil* is steady—HGH at 6½m. per lb., Japan oil, 5¾m. per kilo. *Star-anise* oil is steady at 16m. to 16½m. per kilo. *Quillaia-bark* very firm at 34m. to 35m. per 100 kilos. *Chlorate of potash* is quiet at 70m. to 72m. per 100 kilos. *Sulphate of copper* unchanged at 31.75m. per 100 kilos. *Spirits of turpentine* show a very firm tendency at 44m. per 100 kilos. delivered here. *Lycopodium* still very firm at 265m. per 100 kilos. *Wax* (*Japan*) for spot delivery is very firm at 76m. per 100 kilos.; forward, 73½m. to 74m. *Citric acid* is firm at 255m. per 100 kilos. *Cumin-seed* (new Malta crop), 38m. per 100 kilos. *Shellac* is firm, but shows very little business."

The Bergen Cod-liver oil-market.

Our Bergen correspondent writes, on July 31, that the month closes with a very quiet market at practically unaltered prices. For best quality non-congealing Lofoten oil 63*s.* f.o.b. is asked, but there are practically no buyers. The exports from Bergen this season up to the end of July were 4,769 barrels, against 2,799 barrels in the corresponding period of 1896.

The Smyrna Opium-market.

Our Smyrna correspondent writes, under date of July 24, that the first sale of new crop current opium for immediate delivery has been made in Smyrna in the week under review. The contract was 14 cases at the parity of 65 piastres, or 7*s.* 1*d.* per lb. f.o.b. The quality, however, was not up to the standard, and, after examination, 8 cases were rejected as not sufficiently dry for shipment. This, however, is nothing unusual, as the first arrivals of the new crop are generally poor, especially as regards their morphia content. This year, however, in addition to that defect the opium is unusually moist, owing to the dampness at the time of gathering. It is thought that the new drug will not be generally fit for shipment until the beginning of the second week in August. Up to the present the arrivals of new opium are only 552 cases, against 507 cases at the same time of 1896. So far very little opium has appeared from the upper districts, where the gathering is now proceeding under favourable conditions, and in a short time large arrivals are expected.

EXTRACTING THE PERFUME OF FLOWERS BY WATER.—The theory of M. Jacques Passy that the perfume of living flowers can be extracted by immersing them in water has not found favour with French perfumers. M. Passy is said to have tried his process with success on certain flowers, such as lilies of the valley, from which it had been impossible to obtain a perfume so far. The Passy system is to immerse the flowers, change the water as it becomes charged with perfume, and isolate the perfume with ether.

ANALYSIS MADE EASY.—One of the Paris journals of pharmacy advertises that, from August 1, it has started a "complete laboratory of chemical and bacteriological research, comprising medical, alimentary, and industrial analyses." The manager of the laboratory is a retired navy pharmacist, and it is thought that "isolated pharmacists, or those absorbed in their daily work, may find hereby the means to reply rapidly and scientifically to the researches that are confided to them." The fees vary from 1*s.* 8*d.* for quantitative estimation of the strength of alcohol to 16*s.* for the analyses of vegetable and animal oils, and greases, &c.

Notice to Correspondents. *In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.*

A Queensland Poison.

Sir,—On page 133 of your issue of July 24, you publish an interesting letter from Mr. Edward Morley, of Aramac, Queensland, on the subject of *Gastrolobium grandiflorum*, and its poisonous principle.

Thinking it possible that my experience with alkaloids would be of assistance in making the investigation which Mr. Morley suggests, I have written to him by this week's mail asking for samples. Yours truly,

Lombard Road, Battersea, S.W., Thos. Whiffen.
London, August 5.

"A Look through some German Factories."

Sir,—Referring to your article under the above heading (in your issue of July 31, page 169), while it is quite true that I took a very active part in connection with Mr. Thomas Tyrer, of Stratford, in obtaining from the British Excise the present system of drawback upon alcoholic preparations, it is *not* correct that I previously went to Hamburg to "spy the land."

The conversation detailed did *not* take place with me (although it may have done with Mr. Tyrer), inasmuch as I have never had the pleasure of calling upon Messrs. Bieber, or the opportunity of visiting the city of Hamburg.

Yours truly,

Southwark, London, August 3. Chas. Umney.

[We have since heard from Mr. Zebel that he was mistaken in saying, as he did to our representative, that Mr. Umney was with Mr. Tyrer when the conversation referred to took place. Mr. Zebel's intimation to this effect unfortunately arrived too late to allow us to make the necessary alteration in the proof of the article.—Ed. *C. & D.*]

The Old Druggist's Bill.

Sir,—with reference to your interesting reproduction of an ancient druggist's account, may I suggest an explanation of the apparent peculiarity in dates which it shows? It seems to me to be due to the fact that the present new, or Gregorian, style of reckoning was not adopted in England until 1752 and as the Julian year commenced on March 25, the entry, for March 26 would naturally be the first one of a new year, 1718.

I should like to express my great pleasure at the latest example of your progressiveness—the Summer number. It is a truly remarkable production, the cover surpassing anything you have ever favoured us with.

Yours truly,

Burton F. J. Cooper, A.P.S.

62 Vassall Road, Brixton, S.W.,
July 31.

Milk-water.

Sir,—Milk-water is not, as you guess, lime-water. What was supplied under that name appears in our older dispensatories as *aqua lactis alexiteria*. The formula is given by Alleyne as follows:—Take of the leaves of meadow-sweet, carduus B., and goat's rue, ana M. vj.; of mint and wormwood, ana M. v.; of rue M. iij.; of angelica, M. ij.; pour cong. iij. of new milk upon the ingredients when bruised; and distil in B. M. or a sand-heat." "M." in the above stands, of course, for *Manipulus*, a handful. One pint of this "water" for 10*d.* looks cheap enough, but in 1717 money had a different value from what it has now. Probably 10*d.* in those days was at least equal in purchasing power to 2*s.* 6*d.* ours. I notice, by the way, that one of your poets (sad do your poets!) makes "cocaine" rhyme with "pain." He ou to be ashamed of himself, both as poet and pharmacist.

I am, &c.,

Epworth, July 31. C. C. Bell.

Translating Prescriptions.

Sir,—I shall be glad to know if it is customary to tra late a prescription into English at the request of a regu eustomer, who brings one to be dispensed and insists on being translated. I refused to do so, as I have always c sidered it a breach of etiquette. My eustomer has been h again, and told me he had no difficulty in getting it done a town some distance from here without any demur.

Country Chemist. (181/51

The Sale of Indecent Articles.

It seems scarcely necessary to continue this discussi. Letters condemning the trade in articles associated w immoral practices have been published, and further lett on the subject can only repeat the arguments already us We have two this week taking the opposite view. One is sig "Broad Æstheticism." It comes from a large town in North of England, and the writer justifies the sale of th articles on Malthusian grounds. He says he knows ev person to whom he has sold them, including respect doctors, and he does not consider that in any case the has pandered to licentiousness. Our other correspond signs his name to his letter, but as we do not print his le it would not be fair to name him. Mainly his letter cons of sneers at the "shrieking sisterhood," with whom h pleased to class our previous correspondents.

Fair Play (185/5) writes to say that he keeps some of articles referred to, but always has them under lock and and neither his assistant nor his apprentice knows tha has them. He never sells them to strangers or to perso doubtful repute; but he has several honourable and perfe moral customers for them, and he contends "it is no m immoral to supply these appliances in the manner st than it is to sell a box of steel and pennyroyal pills, o enema, and at the same time 1 oz. of quinine." "Aga the indiscriminate sale, or the handling by young assist of the articles referred to," "Fair Play" adds: "I ca speak too strongly; but I do not like to see such scat denunciations of anything without the legitimate side b mentioned."

A Registered Chemist (185/60) suggests that most of recent correspondents on this topic might have come o the Ark. They do not recognise that the populatio increasing beyond all reasonable bounds, and they do seem to have heard of Malthus, nor to be aware tha followers have largely increased in numbers, and rightl o. This correspondent warmly defends the sale of these art which are not generally used for immoral purposes.

Holidays and Early Closing.

Sir,—Your correspondent, "Country Chemist," ably s the case for a reduction of working hours in pharm y. Ever since I entered the trade I have been impressed th the absurd and unscientific system which obtains th in every paltry little shop there must always be someo on duty, day and night, weekday and holiday, and it as seemed to me that the chemist himself has been chie to blame for this state of affairs. Some time ago there as published in the *C. & D.* a reprint of an article dealing th this question of chemists' long hours, which had appea in a contemporary just previously. No comment was ch- coming at the time, nor has the subject been touched on since until "Country Chemist" appeared upon the ne- Briefly, the suggestion was that chemists should co ine to secure more leisure by arranging for all the shops be closed at a stated time, emergency medicine being obta ble at one or two conveniently situated pharmacies, d at these latter being taken in turn. I think if this s me were taken up by some of our local associations it wo be found practicable.

Yours sincerely,

A London Assistant. (181/

Examination Thoughts.

SIR,—On noticing the very large number of failures at the no examination, one unacquainted with students would tur ly consider they were men of little knowledge, as mp ed with the days when the percentages of passes were od. But as a matter of fact (and any teacher will bear e o in what I say of my fellow-students), the students of da are much better prepared, and have a greater know- dge of the subjects than those of ten to twenty years ago. hy, hen, this severity? Is it for the good of the British blic? If so, the chemists of earlier than 1890 must be exa ined (a new source of revenue). Is it that there may few chemists, and, consequently, less competition? If , th the unqualified competitors (companies and other- se) ould be first removed, or it will have no effect. I hope e st ents who are, and the assistants who will be, affected ll mbine and see if a better system of examination nno e obtained, under Government by preference.

Yours obediently,

Aug t 3. MINOR STUDENT. (185/48.)

SIR,—A few weeks ago you remarked on the decreasing mb of candidates in the Major examination. This adu y diminishing number of Major men is no trivial atte nd does not augur well for the future of pharmacy a p ession. The Council of the Pharmaceutical Society, cord g to its custom, holds up its hands in pious horror the ck of spirit in the rising generation, but does not ove musele to remedy matters. It is far too great a dy take any notice of outside suggestions, however od t se may be. The Council fears to give Major privi- ges t Minor men lest a still fewer number of candidates uld ter for the higher examination. My experience goes show hat men do not enter for the Major examination in der t btain extra privileges. To put it plainly, they do out vanity. They wish to gain the respect of their llow- aftsmen. I have no hesitation in asserting that if e Ph maceutical Society gave all the present privileges Maj men to Minor men, but granted a gown and hood hich ey have the power to do) to successful candidates the igher examination, a large increase in candidates ould the immediate result. By doing so they would be ldin the dignity of the pharmacist in the eyes of the ublic, nd at the same time increasing the number of ghly- ined chemists.

Yours truly,

Augu 4. A HUMAN CHEMIST. (186/12.)

Sticky Fly-papers.

SIR,—s the following suggestion any good to the makers f stic fly-papers? That they should be made quite uare d a hole punched near each corner, a piece of wine t eaded through the opposite corners, and all (the rners' rought to the centre, the sticky side upwards, of ourse. When suspended by this means from a chandelier it akes a ery effective fly-trap, as well as being out of reach. he onl drawback is that if spread too thickly it is apt to rop.

Yours truly,

SETAOC. (185/50.)

LEGAL QUERIES.

We do not ve legal opinions by post. Information regarding most legal matte n connection with pharmacy will be found in THE CHEMISTS' AND D GGISTS' DIARY, *and in "Pharmacy and Poison Laws of the Unite ingdom," and Alpe's "Handy-book of Medicine-stamp Duty."*

176/42. *Ipecac.*—You need not stamp any medicines you ell in land, no matter whether they are sent to Great Britain not. The first vendor of the articles (if they are lutiable n Great Britain must sell them stamped.

175/3. *Sulphonal.*—None of the articles named in your ircular e scheduled poisons, and there is no restriction on heir sal n Great Britain. We presume that the household mbroca n is a turpentine liniment.

176/5. *E. D.*—There seems to be no fixed scale of court- fees to p for obtaining a Justices' certificate previous to getting wine-licence; but the claim of 2*l.* 6*s.* 6*d.* which you say was demanded from you seems very excessive. At the Guildhall the fees amount to 8*s.* 6*d.* You might write to the Board of Inland Revenue, and ask their advice.

179/15. *Primrose.*—There is no occasion to employ a solicitor for obtaining or renewing a wine-licence. For the latter you should have had a form from your local Excise officer.

184/61. *L. L.*—It is not legal for an unregistered person to call himself a wholesale druggist, either trading by himself or in partnership. But so long as he or his firm carries on only a *bonâ-fide* wholesale business he will not be interfered with.

MISCELLANEOUS INQUIRIES.

Notice to Querists. *We reply to our subscribers and their employés only; queries must, therefore, be authenticated by the name and address of the subscriber. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and the name of the querist should be placed on the sample. Queries are not replied to by post.*

165/15. *Photo.*—**Abney's Pyro-ammonia Developer.**—Captain Abney (not "the late" yet), as far as we know, never patented a pyro-ammonia developer, the formula for which he published years ago:—

(1)	Pyrogallic acid	dry
(2)	Potassium bromide	40 grammes
	Water	1 litre
(3)	Ammonia (·880)	1 part
	Water	9 parts
(4)	Sodium sulphite a sat. sol. in water.	

For developing a whole-plate use the following proportions:—No. 3, 4 c.c.; No. 4, 4 c.c.; No. 2, 4 c.c.; No. 1, ·2 gramme. Mix and make up with water to 60 c.c.

173/18. *Beeswax.*—**Waterproof Marine-glue:**—

Caoutchouc	℥j.
Benzol...	℥xvj.

Dissolve and add—

Powdered shellac	℥xx.

Heat on a water-bath, cautiously, until the shellac is dissolved.

179/5. *B. B.*—The sample of substance used largely by cycle-makers for **Brazing** is boracic acid tinted blue.

178/61. *K. B.*—We should think 1*s.* an hour would about be the charge for use of your studio four hours per day, three times a week.

179/33. *Vic.*—Give the marble headstone which is showing signs of weathering a coating of solution of silicate of soda.

178/59. *Argent Viv.*—Leave the mirror alone; you cannot successfully re-silver small portions.

178/51. *A. M. S.*—**Dentifrice-water:**—

Thymol	ʒj.
Ol. menth. pip.	ʒj.
Ol. eucalypti	ʒiss.
Ol. limonis	ʒiss.
Chloroformi	ʒv.
Glycerini	ʒj.
Spt. rectificat. ad	℥xv.

Colour the spirit with a small crystal of magenta dye, and dissolve it in the thymol, oils, and chloroform, and add the glycerine last.

179/25. *Polish.*—**Solubility of Copal.**—To make copal soluble, it has to be heated at a high temperature for some time (the temperature and length of time varying with the kind of copal) until it becomes liquefied by the heavy oily products of its own decomposition. The process called "gum-running" requires great care and much experience, and is one of the most material operations of the varnish-maker's art.

178/26. *Anon.*—At last year's Conference meeting Mr. Allen read a paper on "White-wine Vinegar" which, with an interesting discussion, you will find in *C. & D.*, August 1, 1896.

178/73. *Hirudo.*—Someone has remarked that the more elaborate the **Leech Aquarium** the shorter lived are its occupants. The chief points to observe in leech-keeping seem to be: (1) Do not change the water too often. (2) Let the fresh water when added be of the same temperature as the displaced water. (3) Use "soft" water. (4) Keep a little shingle, two or three iron nails, and a little *valisneria* at the bottom of the aquarium.

178/20. *Salopian.*—Messrs. Butler, Jones & Durholdt, 140 Leadenhall Street, E.C., are agents for Dickes's patent still, which is capital for **Distilling Water.**

178/10. *F. W.*—**Studying for the Minor.**—(1) *Botany*: Green's "Manual of Botany,' vol. i.; "Morphology and Anatomy" (Churchill, 7*s.* 6*d.*). *Chemistry*: Attfield's "Chemistry" (Gurney, 15*s.*). *Materia Medica*: Southall's "Organic Materia Medica" (Churchill, 6*s.*). *Prescription Reading*: Ince's "Latin Grammar" (Baillière, 5*s.*). *Pharmacy*: "The British Pharmacopœia" (Spottiswoode, 6*s.*); Cripp's "Galenic Pharmacy" (Churchill, 8*s.* 6*d.*). *Dispensing*: "The Art of Dispensing" (42 Cannon Street, E.C., 3*s.* 6*d.*). (2) Yes; the change in botany is that systematic botany will be needed.

178/4. (Belfast).—We cannot make out your *nom de plume*. What you want is a tonic, such as the following:—

Acid. nit. mur. dil.	♏viiss.
Ext. cinchon. liq.	♏viiss.
Tr. capsici	♏j.
Glycerini	♏xx.
Inf. calumbæ ad	℥vj.

℥ss. ter in die ex aqua.

178/30. *Cannabis Indica.*—(1) **Unfermented Ginger-wine**:—

Oil of orange	ʒj.
Tincture of orange	℥viij.
Rectified spirit	℥iv.
Tartaric acid	℥viij.
Salicylic acid...	ʒiij.
Loaf-sugar	lb. vj.
Caramel	℥iij.
Water	Cong. viij.

Dissolve the oil of orange in the spirit and pour upon the sugar, contained in a large funnel. Pass through this a sufficiency of the water to dissolve; add the rest of the water containing the tartaric acid, then the caramel, and, finally, the tincture containing the salicylic acid. Set aside for a fortnight, and filter, if necessary.

(2) **Unfermented Black Currant and Raspberry Wines.**—Use above formula as a guide, but in place of the oil and tincture of orange use ℥viij. of essence of black currant or raspberry. The caramel will require leaving out or reducing in quantity.

181/74. *Salophen.*—Adding a lemon-syrup to the bottle globe of seltzogene cannot possibly affect the pressure of the gas generated in the usual way in the top globe.

202/35.—*W. P.*—**Gelanthum.**—See *C. & D.*, October 24, 1896, page 621.

180/4. *X. Y. Z.*—You do not give us an idea of what **Black Hair-dyes** you have failed to get quick results with. Try this:—

No. 1.

Ac. pyrogallic.	℈j.
Ac. nitric. dil....	♏v.
Aq. ad...	℥ij.

No. 2.

Argent. nitrat.	gr. vj.
Cupri sulph.	gr. j.
Liq. ammon. q.s. to dissolve the ppt.	
Aq. ad...	℥j.

The hair must be freed from grease by previously washing in warm water in which a little washing-soda has been dissolved; then apply No. 1 by means of a toothbrush, followed by the use of No. 2 in like manner. Avoid touching the sk with the solutions. The dye is best applied at night.

181/39. *Fungor.* — **Fruit-syrups** for **Mineral-wat Trade.**—To give all the information you ask for wou fill up a couple of these columns. Here is a recipe for

Lemonade-syrup.

Soluble essence of lemon	℥iss.
Tincture of quillaia	℥iss.
Citric-acid solution	℥iv.
Syrup to	Cong. j.

Mix.

The **Soluble Essence of Lemon** is made thus:—

Fresh lemon-peel (freed from inner portion by grating)	℥iv.
Fresh tangerine-orange peel (ditto)	℥j.
Rectified spirit	℥xij.
Water	℥viij.

Macerate four days, strain, press, and filter.

The **Acid-solution** is made by pouring 15 oz. of boil distilled water upon 25 oz. of citric acid, filtering, a making up to 50 oz. with water. The **Quillaia-tincture** made of the strength of 1 in 3 by percolation wit menstruum of 1 part of rectified spirit and 3 parts of wa decolorised by filtering through bone-black.

167/47. *Nemo.*—We cannot quite understand your qu as turpentine will obviously dissolve the oil of the fi coating.

178/38. *Vernet.*—The best means of **Pressing Plant** to use a screw-press, such as a linen or copying press. pressure, at first slight, is gradually increased.

167/45. *Catarrh.*—(1) A **Phlegmagogue** is a medic that thins mucus, such as some of the salts of ammon (acetate, citrate, and carbonate). (2) Is not the drug mention hydrate of chloral?

181/40. *Post-office.*—The blue ink is a solution of met blue. A few experiments will determine the strength use.

181/13. *Belgravia.*—The tablets consist mainly of ext of coca.

166/39. *Suffolk.*—We find the **Platinotype-develop Salts** to be neutral oxalate of potash, with a little free ox acid. As far as we can judge from the sample, the pro tion is ¼ oz. oxalic acid to ½ lb. oxalate of potash.

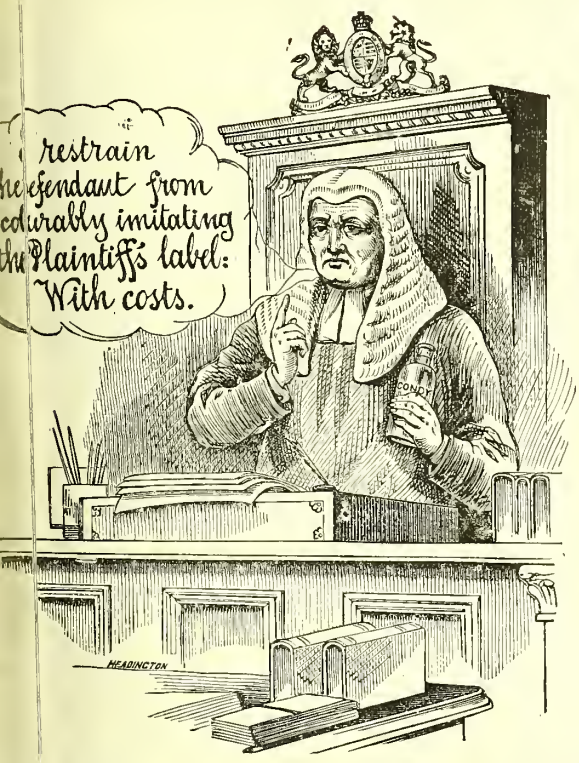
INFORMATION SUPPLIED.

Subjoined are notes and formulæ received from subscribers. Si information is always welcome.

172/20. There is an American puncture-stop fluid m e by acidifying a solution of soluble glass in glycerine; as e air is squeezed out the colloidal precipitate is squeeze n. About 4 oz. is recommended to be put inside each ty C. M. (184/74.)

173/1. "H. R. R." must be reasonable in the amou of caustic soda he puts in his boiler. If any of it is pt neutralised it tends to dissolve the iron at the surface el of the water, forming a soluble but not easily decomp d ferrate of iron. It is forbidden to be used in some boile y the Boiler Insurance Companies.—C. M. (184/74.)

The Misuse of Morphia in Queensland.—A de a tion from the Council of the Pharmaceutical Socie of Queensland waited upon the Home Secretary of that co y recently to request him to restrict the sale of morphi d other poisonous drugs. A resolution had previously en discussed at a meeting of representatives of the me al and pharmaceutical associations, to the effect that y medical man who knew of a person who was beco g addicted to the use of morphia or other poisonous g should, with the concurrence of a police magistrate, n y the Pharmacy Board, and that the board should then ins t chemists not to supply the drugs specified.



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CITRATE OF MAGNESIA (SECOND QUALITY).

3-lb. Tins, 30/- nett; 56-lb. Tins, 56/- nett. Tins included. Also in ¼-lb., ½-lb., and 1-lb. Bottles.
This is an exceptionally reliable article, and much superior to that usually offered to the trade at the price.

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EITHER IN POWDER OR FINE GRANULES.

28-lb. Tins, 30/-; 56-lb. Tins, 56/- nett. Tins included. Also in 6-oz. and 8-oz. Bottles.

We dare specially to inform the trade that we are now putting up only Two proprietary sizes instead of THREE as theretofore, and that the Retail Prices are in all cases printed on the label.

There are also some alterations in prices, which are shown in our New Price List.

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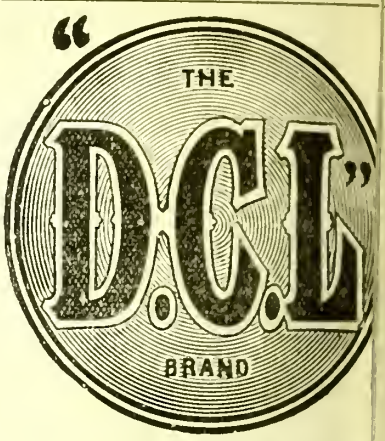

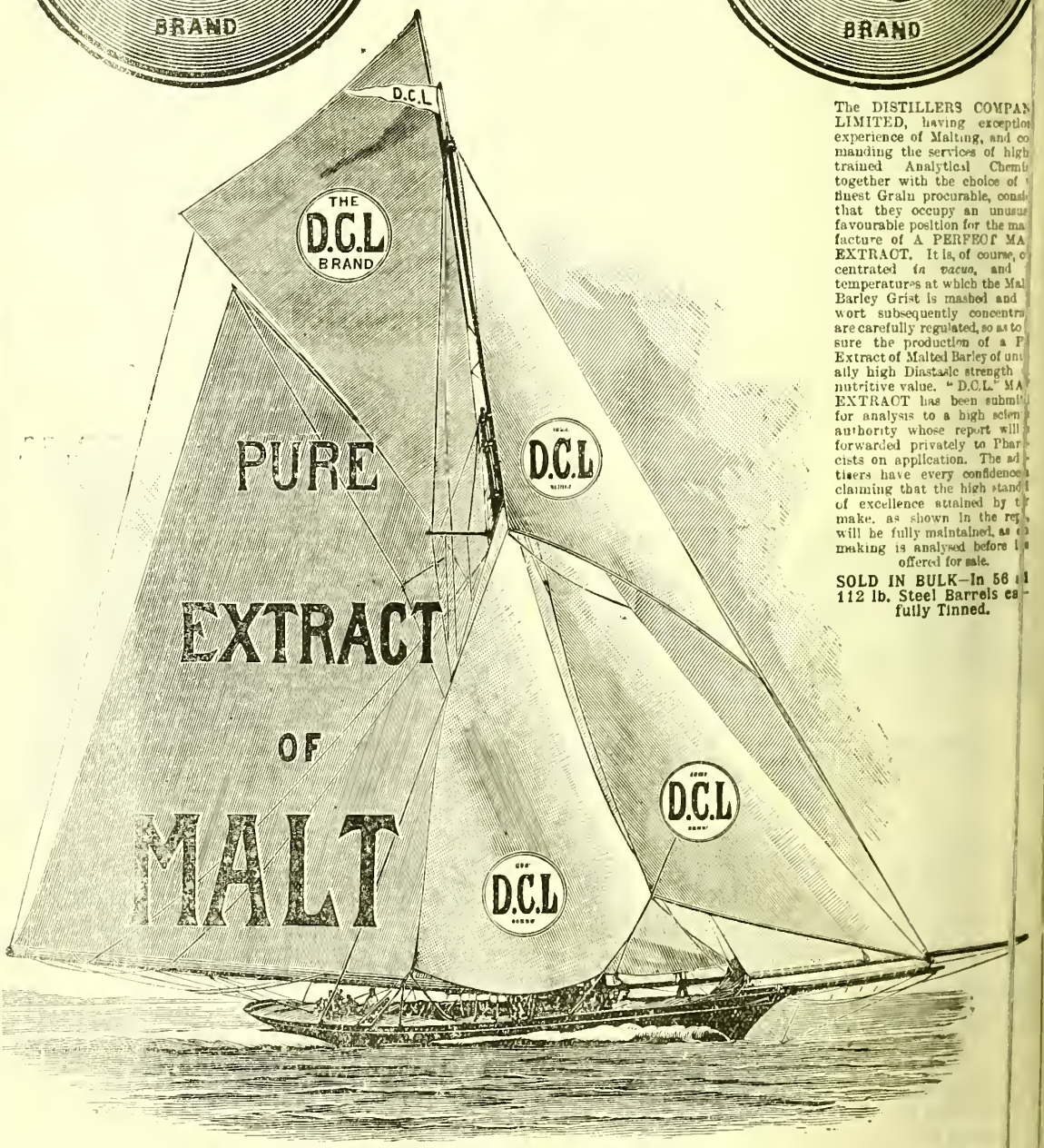

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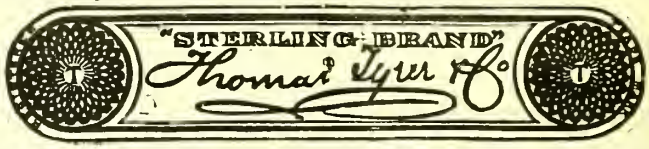

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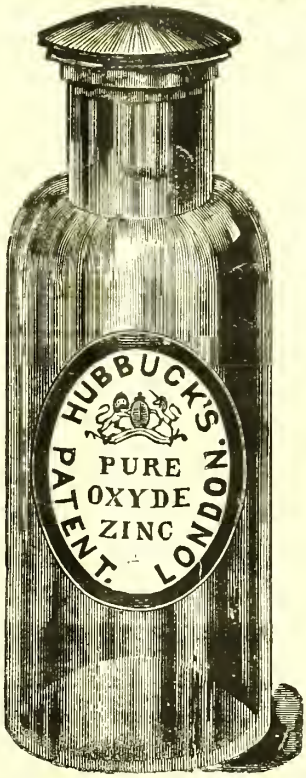

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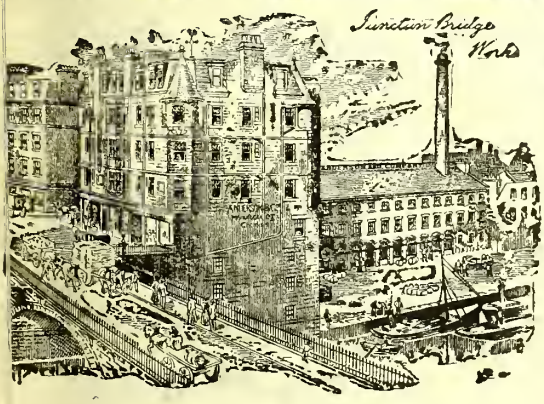

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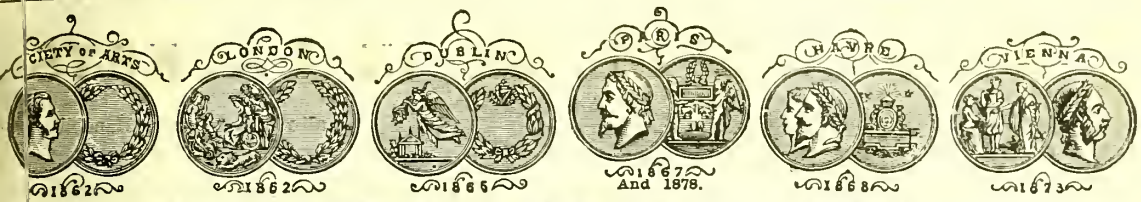

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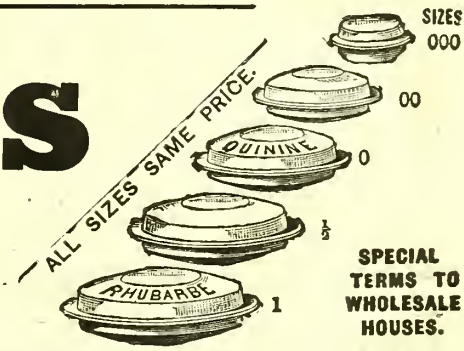

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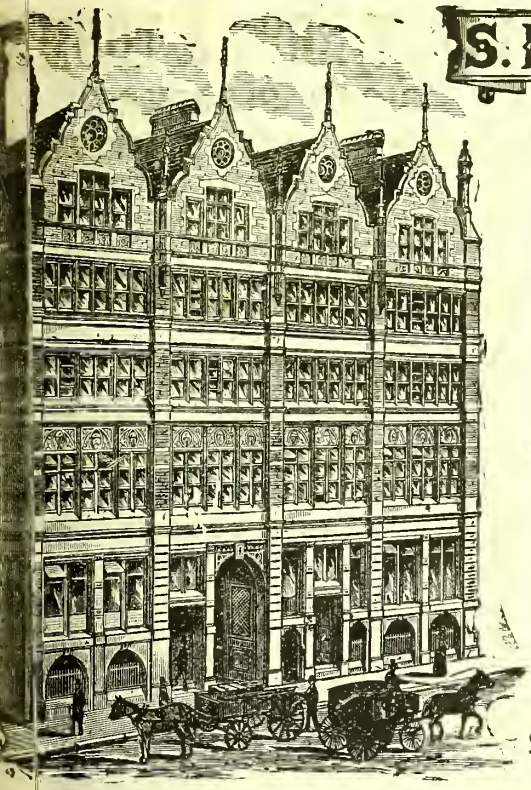

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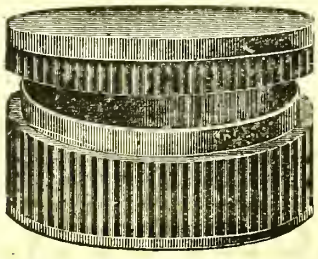

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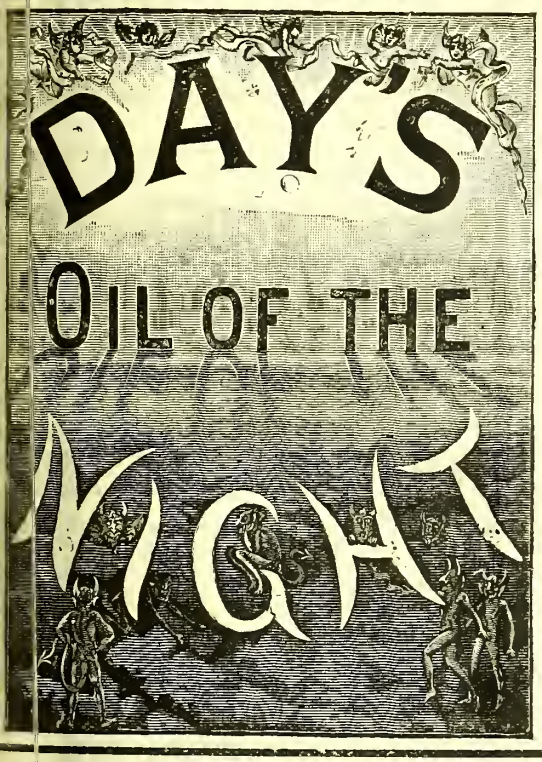

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DRY FORMALIN TABLETS,

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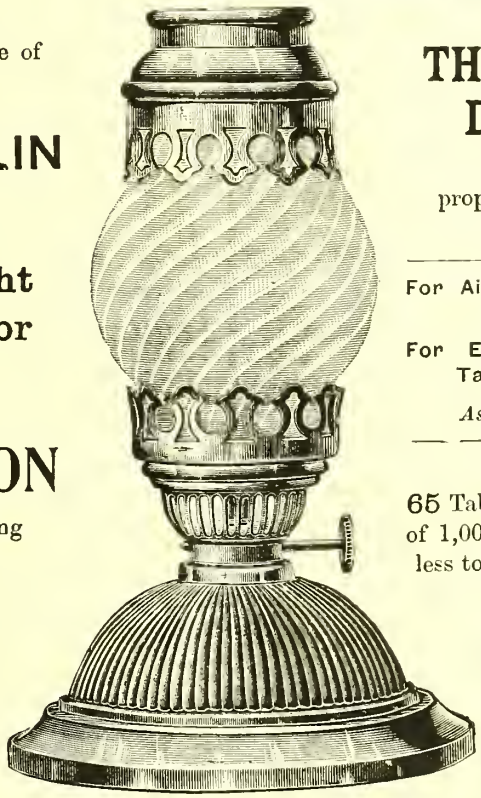

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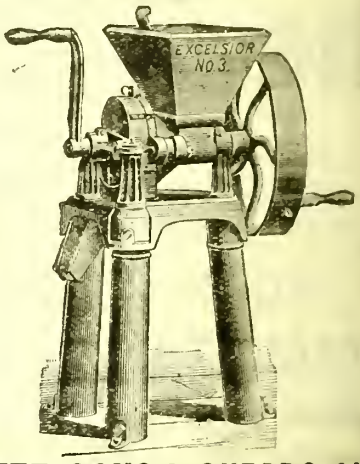

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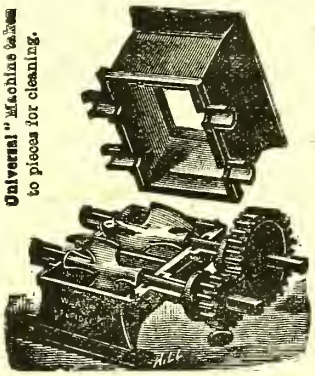

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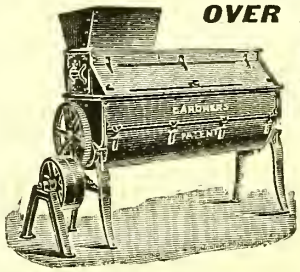

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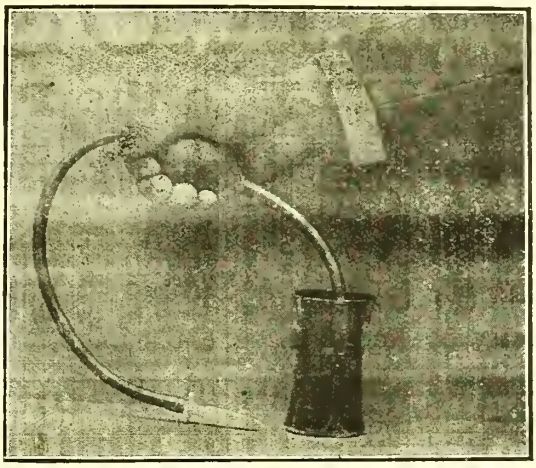

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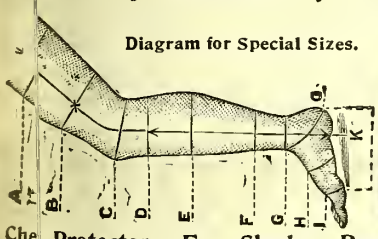

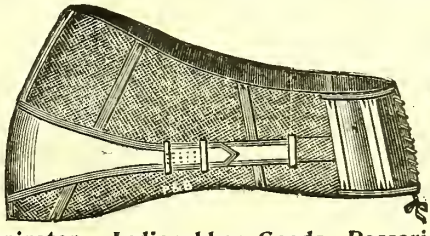

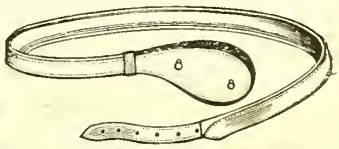

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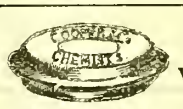
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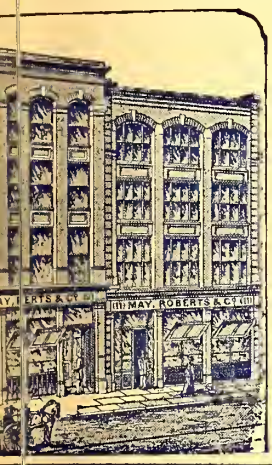

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11/	13/–	19/6	27/–	per doz. boxes of 10	
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Pots with Burnt-in Labels.

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Wood-top Corks. In outers of 1 dozen.

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TAKE NOTICE that on the 6th day of July, 1897, the House of Lords **(The Lord Chancellor, Lord Watson, Lord Herschell, Lord Shand, and Lord Davey)**

UNANIMOUSLY AFFIRMED

the Judgments of Mr. Justice Stirling and the Court of Appeal in the case of POWELL (trading as **Goodall, Backhouse & Co.**) *v.* THE BIRMINGHAM VINEGAR BREWERY CO., Limited, and dismissed the Appeal of the Birmingham Vinegar Brewery Co., Limited, from such Judgments with costs in favour of **Goodall, Backhouse & Co.**

Dated this 8th day of July, 1897.

J. SEYMOUR SALAMAN,
65 and 66 Chancery Lane, LONDON,
Solicitor for **Messrs. Goodall, Backhouse & Co., Leeds.**

Printed by Spottiswoods & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—August 7, 1897.